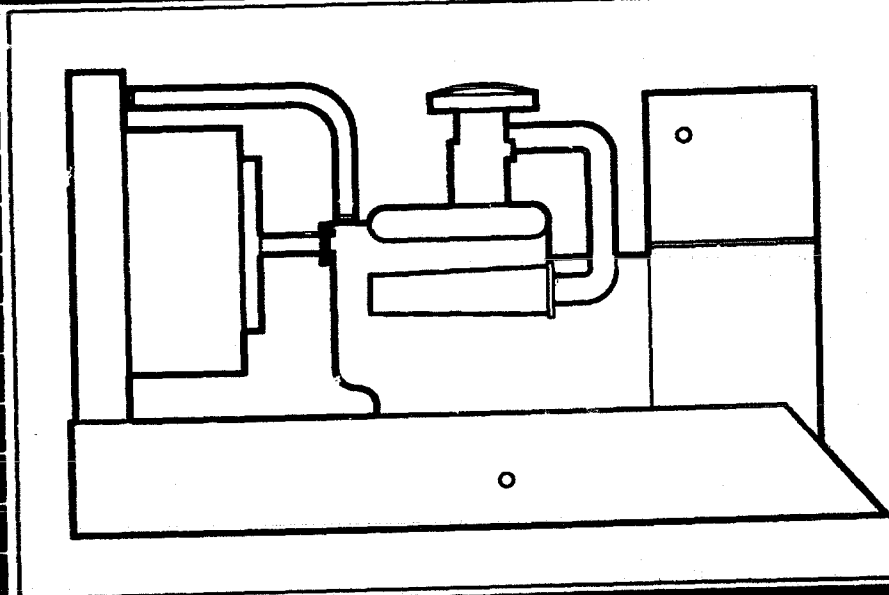


Onan

PARTS CATALOG

ENT Generating Set



928-0224
2-92 (SPEC A-C)
Replaces 8-90 (Spec A-C)
Printed in U.S.A.

Introduction

This Parts Manual applies to the Generator Set(s) Listed below. The illustrations are arranged in an assembly of related parts, and each part or assembly is identified by a reference number. All parts illustrated are typical, and unless otherwise mentioned in the description column of the parts list, the parts are interchangeable between all models.

These typical illustrations are subject to change and reflect only the latest replacement for the original factory installed parts. The Right and Left sides of the Generator Set are determined by FACING the engine end (FRONT) of the Set.

Set Data Table

MODEL IDENTIFICATION	KW RATING	RPM RATING	BATTERY VOLTAGE
75.0 ENT-*/#②	75,000 WATTS	1800 RPM	12 VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
B (3)	120/240	60	3	1	
E (6D)	240/480	60	4	3	
F (7)	220/380	60	4	3	
H (9X)	347/600	60	4	3	
L (15)	120/240	60	12	1	+
L (15)	120/208	60	12	3	+
	120/240				
	127/220				
	139/240				
	240/416				
	254/440				
	277/480				
N (53)	120/240	50	3	1	
Z (515)	110/220	50	12	1	+
	115/230				
Z (515)	110/190	50	12	3	+
	110/220				
	115/200				
	115/230				
	120/208				
	127/220				
	220/380				
	230/400				
	240/416				
	254/440				

* - Voltage Codes follow Model Letter designations.

- Specification number: number 1 is standard, all others indicate variations.

② - Specification letter: letter advances (A to B, B to C, etc) with major manufacturing changes.

+ - These Generators are reconnectible, refer to Operator's Manual for wiring data.

Engine Replacement Parts

All Engine replacement parts must be ordered from the engine manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the engine manufacturer's nameplate and supply the Model, Specification, Serial Numbers and other available information. Refer to the engine manufacturer's manuals for your nearest authorized distributor or parts center; or contact the Onan distributor from whom you purchased this Set, for assistance in ordering replacement parts. Ford Model Number for this set is CSG-875-6005A.

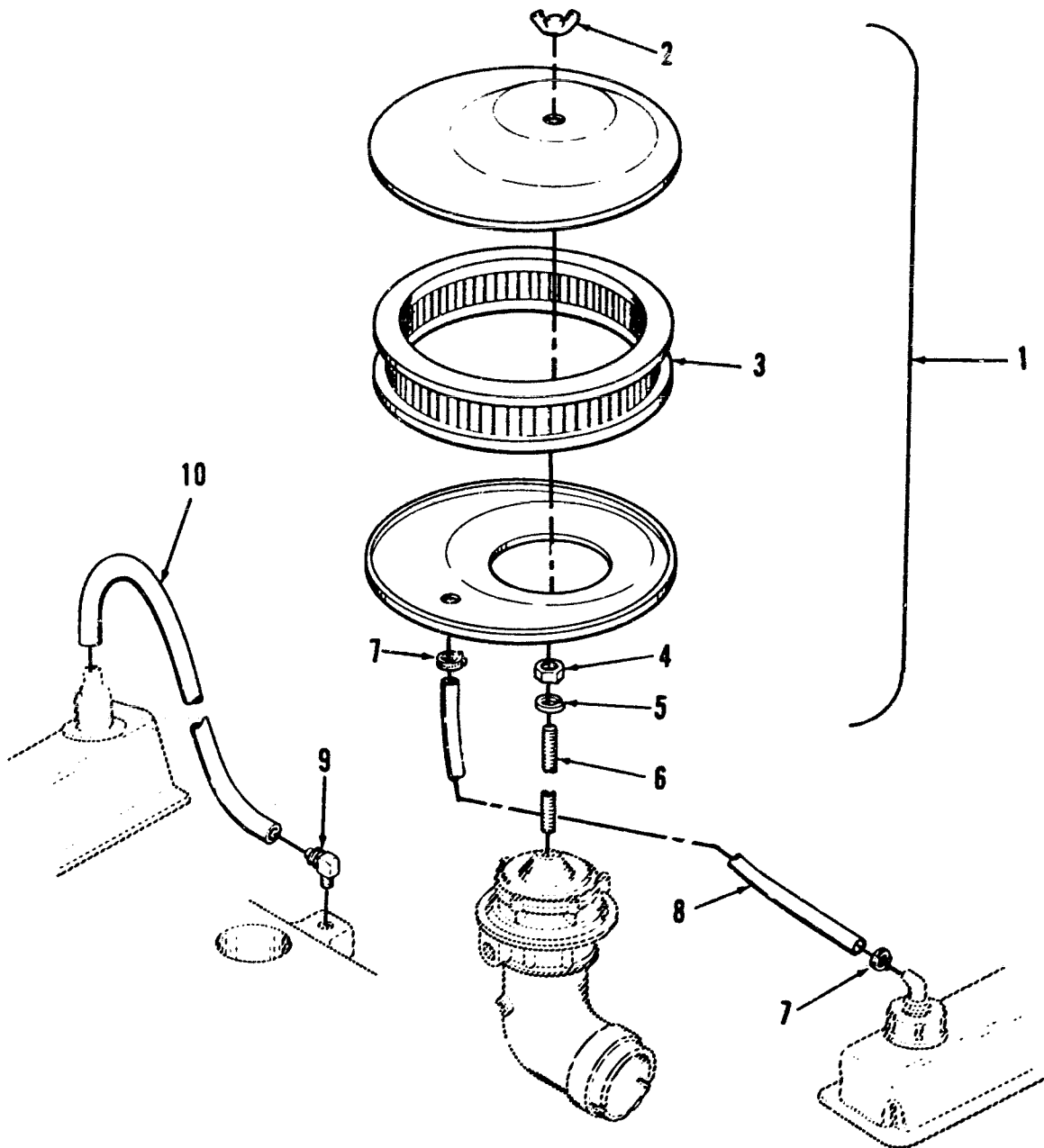
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Air Cleaner

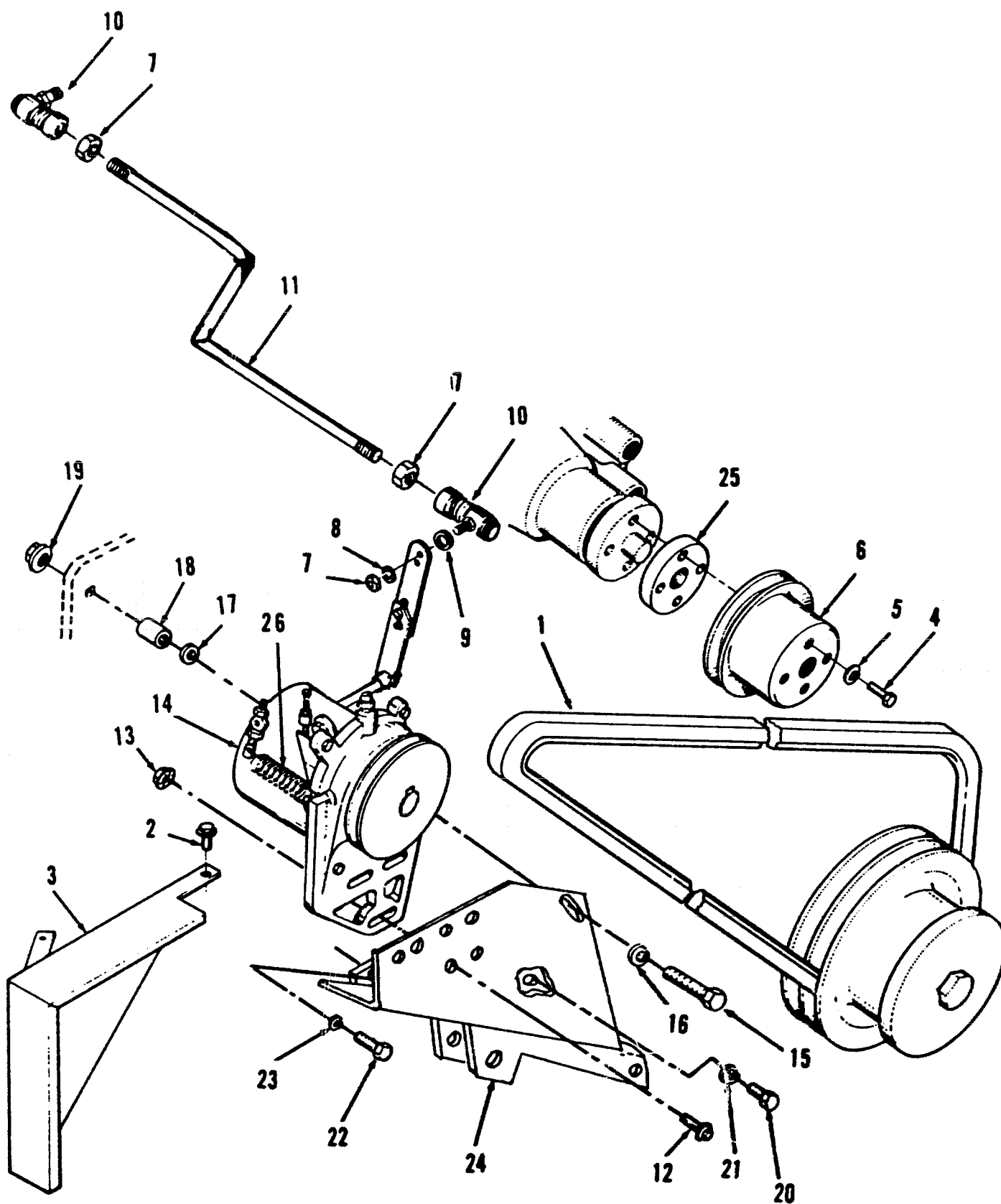


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1724	1	Cleaner Assembly, Air (Includes Parts Marked *)
2	865-0006	1	*Nut, Wing (1/4-20)
3	140-1837	1	*Element - Air Cleaner
4	862-0001	1	*Nut, Hex (1/4-20)
5	850-0040	1	*Washer, Lock - Spring (1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	NFS	1	*Stud (1/4-20 x 6"LG)
7	503-0547	2	Clamp, Hose
8	503-1093	1	Hose, Rubber (5/8"ID x 19"LG)
9	502-0237	1	Elbow, Pipe to Hose - 90° (3/8 NPT x 1/2"ID Hose)
10	503-1100	1	Hose, Rubber (1/2"ID x 23"LG)

* - Parts Included in 140-1724 Air Cleaner Assembly.

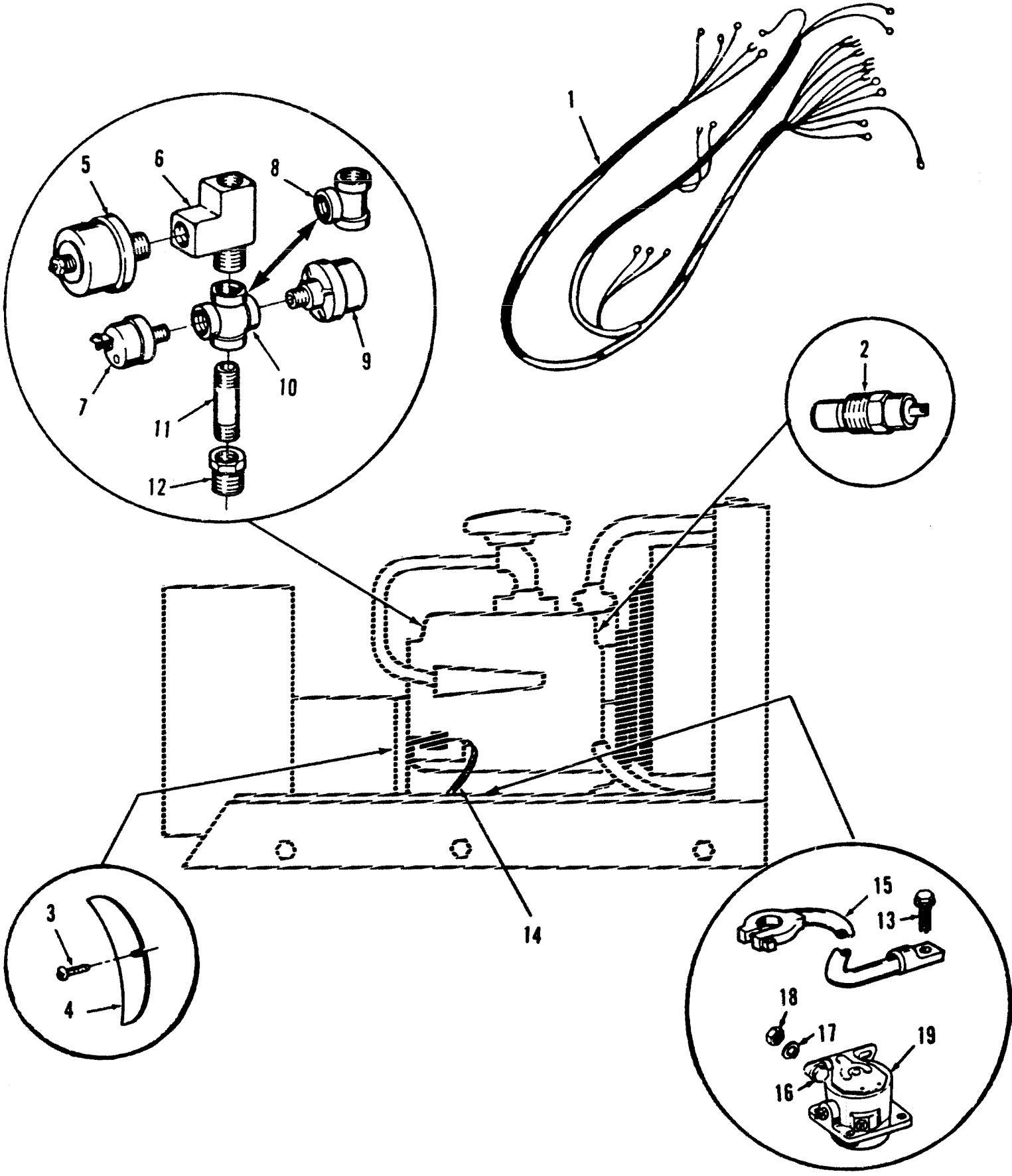
Governor - Mechanical



Governor - Mechanical

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0034	1	Belt, Drive - V	15	800-0052	1	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
2	821-0010	3	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	16	850-0050	1	Washer, Lock - Spring (3/8")
3	130-0991	1	Guard, Belt	17	526-0026	2	Washer, Flat (13/32"ID x 3/4"OD x 1/16"THK)
4	801-0027	4	Screw, Cap - Hex Head (5/16-24 x 7/8")	18	130-0988	1	Spacer, Sleeve
5	850-0045	4	Washer, Lock - Spring (5/8")	19	870-0281	1	Nut, Self-locking - Hex Washer Head (3/8-16)
6	132-0261	1	Pulley - Water Pump Drive	20	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")
7	115-0025	4	Nut, Hex (1/4-28)	21	850-0050	1	Washer, Lock - Spring (3/8")
8	850-0040	2	Washer, Lock - Spring (1/4")	22	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
9	526-0018	4	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)	23	850-0055	1	Washer, Lock - Spring (7/16")
10	150-0638	2	Joint, Ball	24			Bracket, Mounting
11	152-0243	1	Rod, Throttle		150-1521	1	Used with Motorola Alternator
12	821-0030	3	Screw, Self-locking - Hex Washer Head (3/8-16 x 1")		191-2025	1	Used with Bosch Alternator
13	870-0281	3	Nut, Self-locking - Hex Washer Head (3/8-16)	25	131-0353	1	Spacer, Pulley
14	151-0584	1	Governor	26	151-0594	1	Spring, Governor - 50 Hz Only

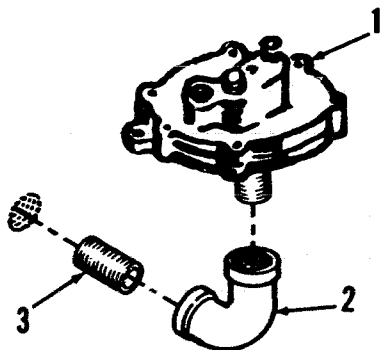
Engine Components - Left Side



Engine Components - Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-0942	1	Harness, Wiring - Engine	11	505-0104	1	Nipple, Pipe
	338-2460	1	Spec A		505-0061	1	1/8 NPT x 1-1/2"
2	193-0247	1	Spec B	12	505-0007	1	1/8 NPT x 2"
		1	Sender, Temperature - Engine			1	Bushing, Reducer - Hex
3	812-0075	1	Coolant (E2)	13	821-0010	2	(1/4 NPT x 1/8 NPT)
		1	Screw, Machine - Round Head			2	Screw, Self-locking - Hex
4	191-0773	1	(#8-32 x 1/4")	14	336-3124	1	Washer Head (1/4-20 x 1/2")
5	193-0244	1	Cover - Starter Mounting Hole			1	Lead, Electrical (#2 AWG x
6	502-0058	1	Sender, Pressure - Oil (E1)	15			9"LG)
		1	Tee, Pipe - Street, Brass		416-0021	1	Cable, Battery
			(1/8 NPT)		416-0672	1	Positive (21"LG)
7	309-0544	1	Switch, Pressure - Low Oil	16	800-0005	2	Negative (29"LG)
			(S1)			2	Screw, Cap - Hex Head
8	505-0059	1	Tee, Pipe (1/8 NPT)	17	850-0040	2	(1/4-20 x 3/4")
9	309-0545	1	Switch, Pressure - Low Oil,	18	862-0001	2	Washer, Lock - Spring (1/4")
			Pre-Alarm (S6 - Spec A,	19	307-1031	2	Nut, Hex (1/4-20)
			S5 - Spec B)			1	Solenoid, Electrical - Start,
10	505-0763	1	Cross, Pipe (1/8 NPT)				12 VDC (K6)

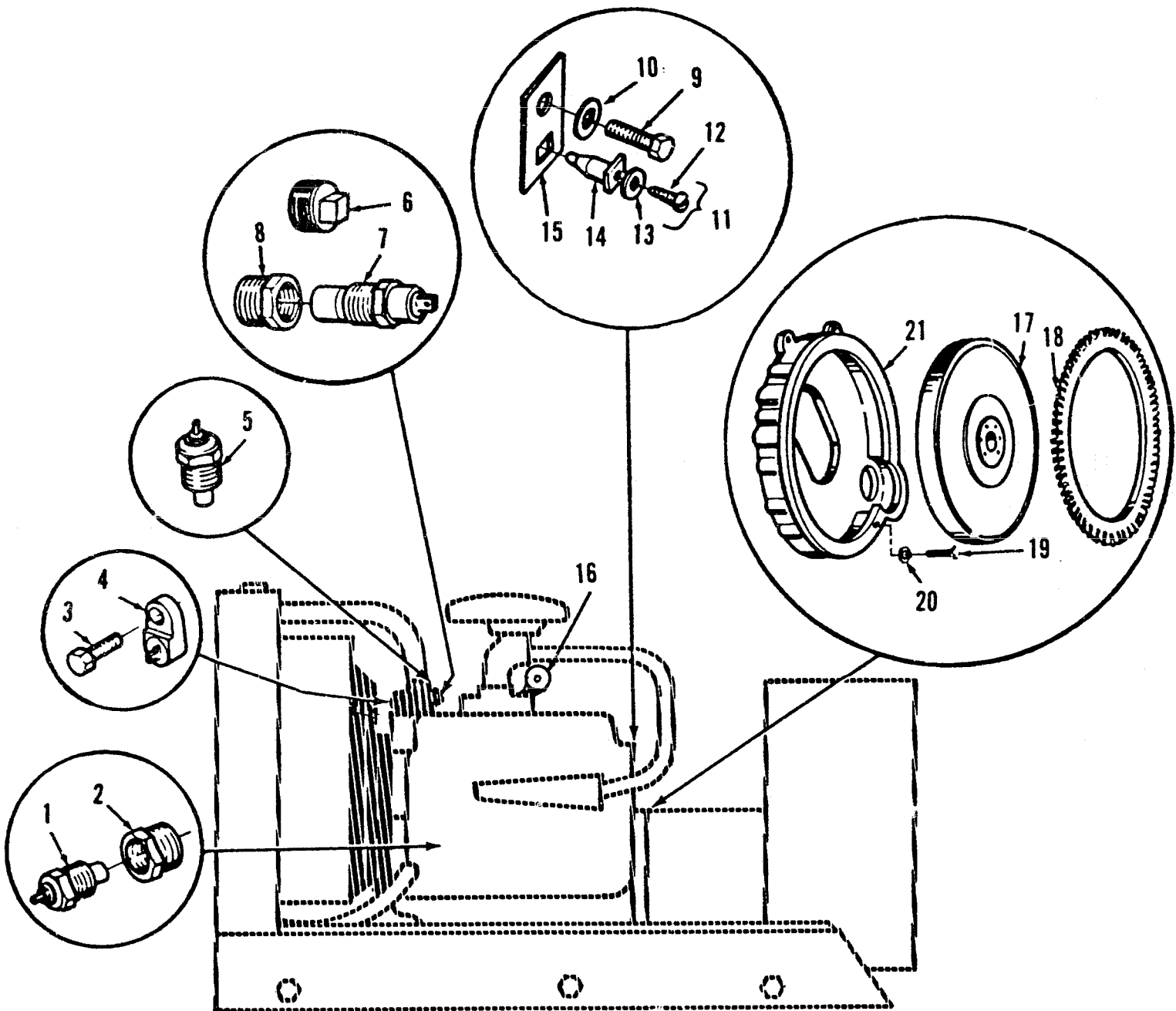
Vacuum Switch - Regulator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0367	1	Switch, Vacuum - Regulator				
2	505-0039	1	Elbow (1/8 x 90°)				
3	505-0101	1	Nipple, Close (3/8 NPT x 1")				

NOTE: To install Items 1, 2, & 3 - Remote plug in Intake Manifold and discard.

Engine Components - Right Side

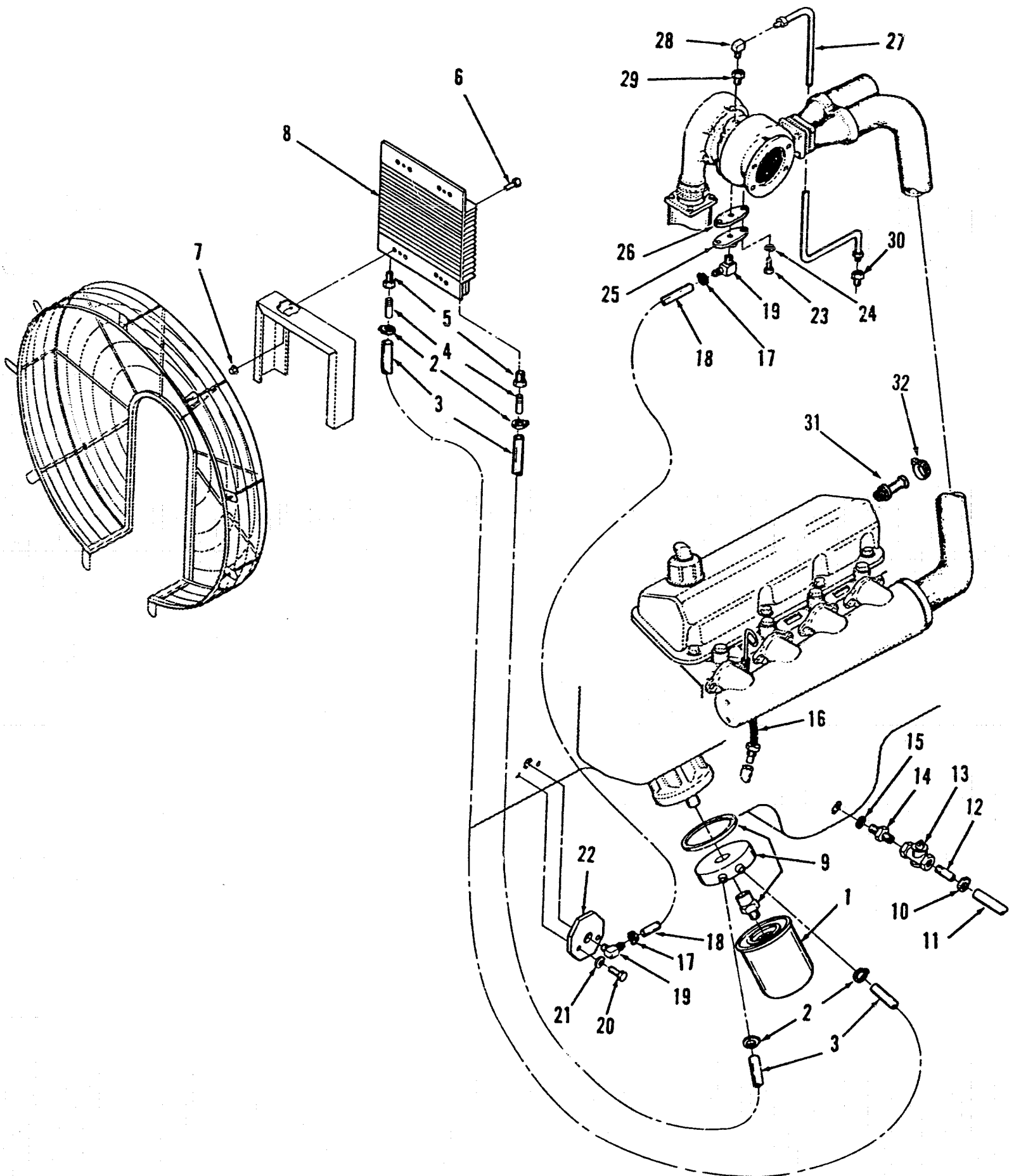


Engine Components - Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0249	1	Sender, Temperature - Oil (E5)	11	332-1292	1	Bracket Assembly, Terminal (Includes Parts Marked *)
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	12	809-0035	1	*Screw, Thread Cutting - Round Head (#8 x 3/4")
3	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")	13	508-0015	1	*Washer, Insulating - Fiber (#8)
4	309-0269	1	Switch, Thermostatic - Low Engine Temp (S5)	14	870-0196	1	*Nut, Insulating (#8)
5	309-0179	1	Switch, Thermostatic - Hi Engine Coolant Temp (S2)	15	332-1281	1	*Bracket, Mounting - Terminal
6	505-0130	1	Plug, Pipe - Square Head (3/4 NPT)	16	166-0278	1	Coil, Ignition (T1)
7	309-0178	1	Switch, Thermostatic - Hi Engine Coolant Temp - Pre-Alarm (S7 - Spec A, S6 - Spec B)	17	104-1097	1	Flywheel (Includes Ring Gear)
8	505-0499	1	Bushing, Reducer - Hex (3/4 NPT x 3/8 NPT)	18	104-0723	1	Gear, Ring
9	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")	19	800-0072	8	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
10	853-0016	1	Washer, Lock - EIT (5/16")	20	850-0055	8	Washer, Lock - Spring (7/16")
				21	231-0260	1	Adapter - Generator to Engine

* - Parts Included in 332-1292 Terminal Bracket Assembly.

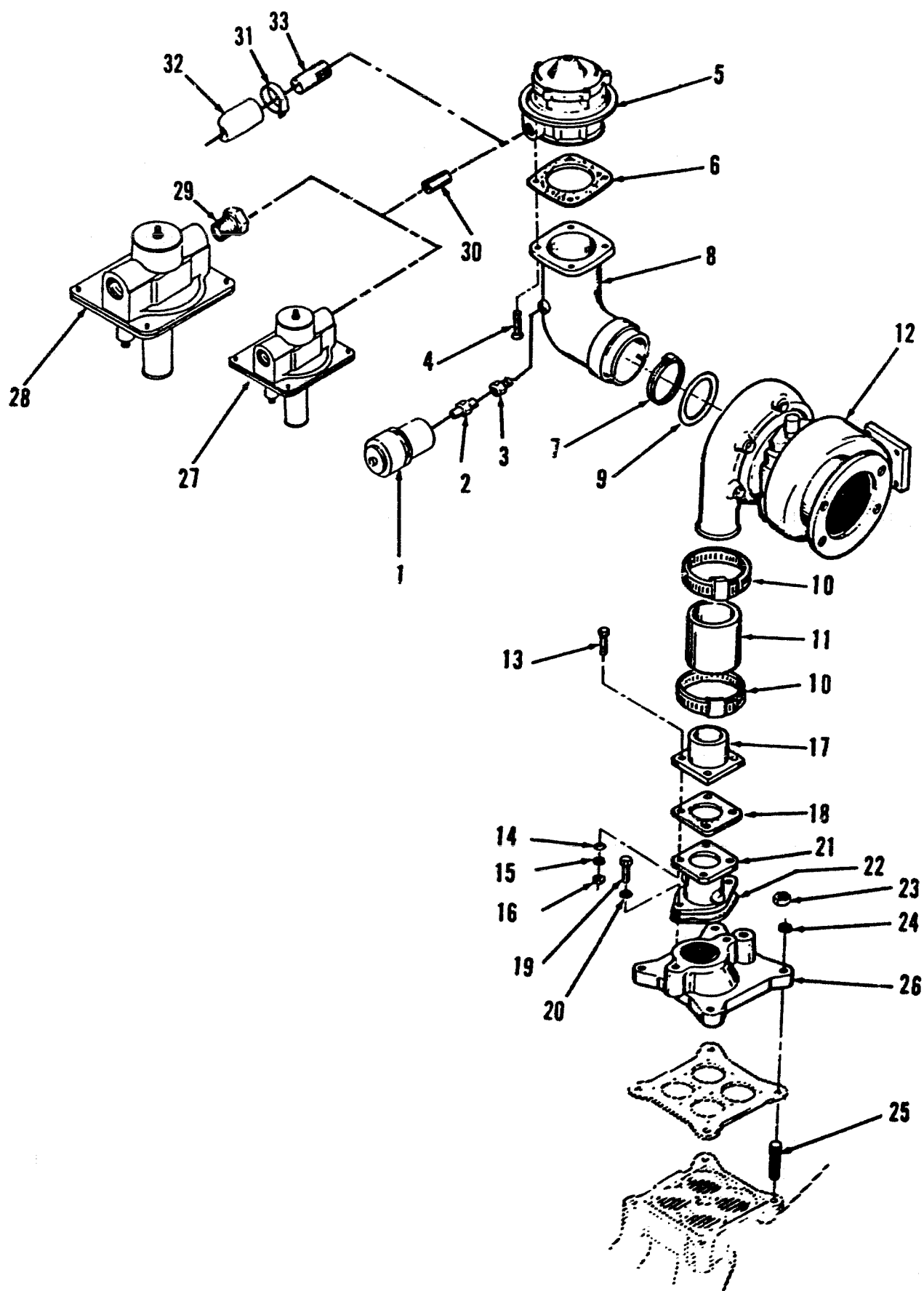
Lube Oil System



Lube Oil System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0193	1	Filter, Oil	16	123-1322	1	Tube - Oil Level Indicator
2	503-0446	4	Clamp, Hose	17	503-0547	2	Clamp, Hose
3	503-1099	2	Hose, Rubber (1/2"ID x 3/4"OD x 29"LG)	18	503-1097	1	Hose, Rubber (5/8"ID x 15/16"OD x 34"LG)
4	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")	19			Fitting Spec A
5	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)		502-0302	2	Elbow, Pipe - Used Through September, 1985
6	821-0016	3	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")		505-0135	2	Nipple, Pipe - Half - Begin October, 1985
7	870-0257	3	Nut, Self-locking - Hex Washer Head (5/16-18)		505-0135	2	Spec B - Nipple, Pipe - Half
8	102-1113	1	Cooler, Oil	20	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
9	102-1097	1	Adapter Unit (Includes "O" Ring, Housing w/Thermostat and Female/Male Hex Adapter)	21	850-0045	2	Washer, Lock - Spring (5/16")
10	503-0131	1	Clamp, Hose	22	121-0036	1	Plate - Oil Return
11	503-0966	1	Hose, Rubber (5/8"ID x 7/8"OD x 30"LG)	23	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 7/8")
12	505-0135	1	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	24	850-0050	2	Washer, Lock - Spring (3/8")
13	504-0030	1	Valve, Cock (3/8 NPT)	25	145-0534	1	Flange - Oil Drain
14			Adapter, Pipe - Hex (1/2-20 UNF x 3/8 NPT)	26	145-0535	1	Gasket
			Spec A	27	121-0037	1	Line - Oil Inlet
	102-0652	1	Used Through July, 1986	28	502-0002	1	Elbow, Pipe - Street, 90°, Brass (1/8 NPT x 1/4" Tube)
	502-1013	1	Begin August, 1986	29	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)
	502-1013	1	Spec B	30	502-0003	1	Connector, Inverted Male
15			Gasket, Oil Drain	31	C4TZ 84500B	2	Cap, Tube - Heater Outlet (Ford #)
			Spec A	32	503-0183	2	Clamp, Hose
	102-0664	1	Used Through July, 1986				
	102-1320	1	Begin August, 1986				
	102-1320	1	Spec B				

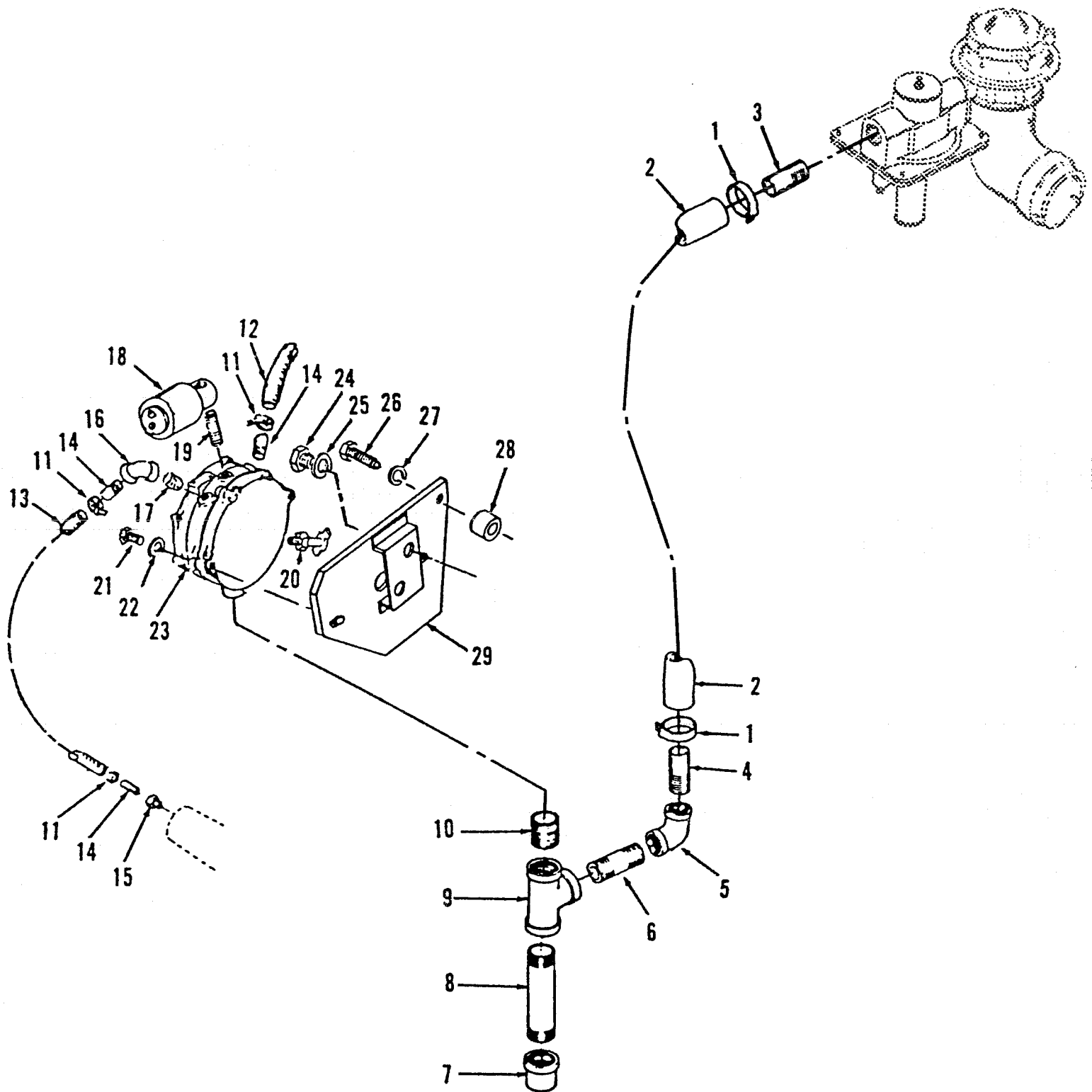
Fuel System (LPG or Natural Gas)



Fuel System **(LPG or Natural Gas)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	18	145-0540	1	Gasket
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	20	850-0050	2	Washer, Lock - Spring (3/8")
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	21	145-0538	1	Body - Carburetor
5	145-0532	1	Mixer - Air/Gas	22	148-0775	1	Gasket
6	145-0540	1	Gasket	23	110-0445	4	Nut, Hex (5/16-24)
7	503-0998	1	Clamp, Hose - "T" Bar Type	24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)
8	145-0590	1	Elbow - Mixer to Turbocharger	25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")
9	509-0165	1	"O" Ring	26	145-0482	1	Adapter - Carburetor
10	503-0465	2	Clamp, Hose	27	148-0637	1	Regulator, Pressure - Gas Vapor (3/4 NPT) - LPG System
11	503-1172	1	Hose, Rubber (2-1/2"ID x 3"LG)	28	148-0601	1	Regulator, Pressure - Gas Vapor (1 NPT) - Nat Gas System
12	145-0541	1	50 Hertz Sets	29	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
	145-0539	1	60 Hertz Sets	30	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	31	503-0398	2	Clamp, Hose
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	32	503-0796	1	Hose
15	850-0030	4	Washer, Lock - Spring (#10)	33	503-0324	2	Nipple, Pipe - Half (3/4" x 2")
16	870-0053	4	Nut, Hex (#10-32)				
17	145-0528	1	Adapter - Throttle Unit				

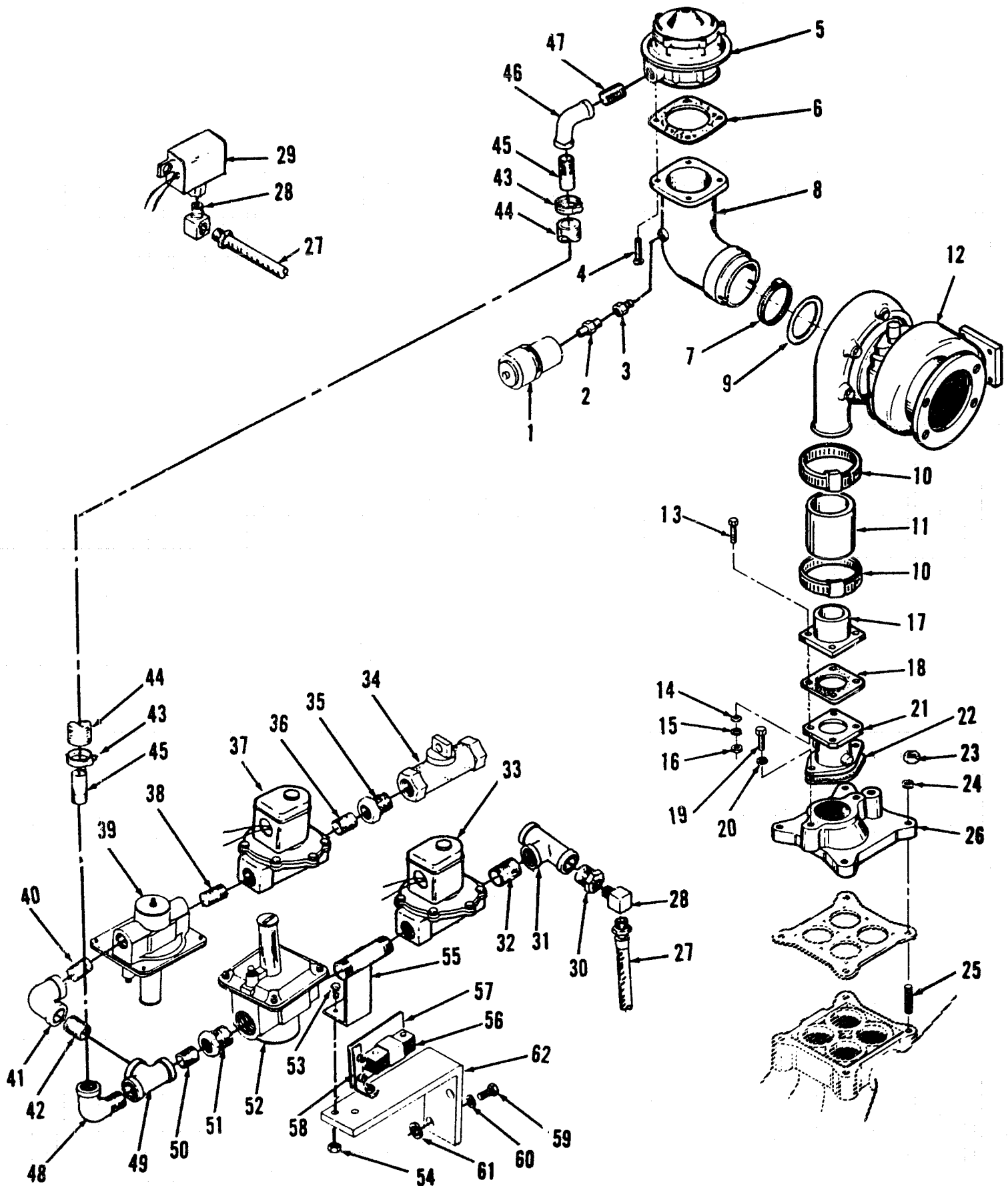
LPG Gas Conversion Components



LPG Gas Conversion Components

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0398	2	Clamp, Hose	16	505-0039	1	Elbow, Pipe - 90° (3/8 NPT)
2	503-0799	1	Hose, Rubber (1"ID x 1-3/8"OD x 30"LG)	17	505-0101	1	Nipple, Pipe (3/8 NPT x 1")
3	505-0102	1	Nipple, Pipe - Half (3/4 NPT)	18	307-0268	1	Valve, Solenoid - 12 VDC (1/4 NPT)
4	505-0324	1	Nipple, Pipe - Half (3/4 NPT x 2")	19	505-0099	1	Nipple, Pipe (1/4 NPT x 7/8")
5	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)	20	504-0005	1	Cock, Drain (1/4 NPT)
6	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")	21	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
7	505-0479	1	Cap, Pipe (1 NPT)	22	850-0040	2	Washer, Lock - Spring (1/4")
8	505-0331	1	Nipple, Pipe (1 NPT x 4"LG)	23	148-0625	1	Converter, Gas - LPG
9	505-0661	1	Tee, Pipe - Reducing (1 NPT x 3/4 NPT x 1 NPT)	24	800-0069	2	Screw, Cap - Hex Head (7/8-14 x 3/4")
10	505-0004	1	Nipple, Pipe (1 NPT x 1-1/2")	25	850-0055	2	Washer, Lock - Spring (7/8")
11	503-0183	3	Clamp, Hose	26	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
12	503-0833	1	Hose, Rubber (5/8"ID x 24"LG)	27	850-0050	1	Washer, Lock - Spring (3/8")
13	503-0261	1	Hose, Rubber (5/8"ID x 8-1/2"LG)	28	148-0776	1	Spacer, Sleeve
14	505-0135	3	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	29	148-0773	1	Bracket, Mounting - Converter
15	505-0019	1	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)				

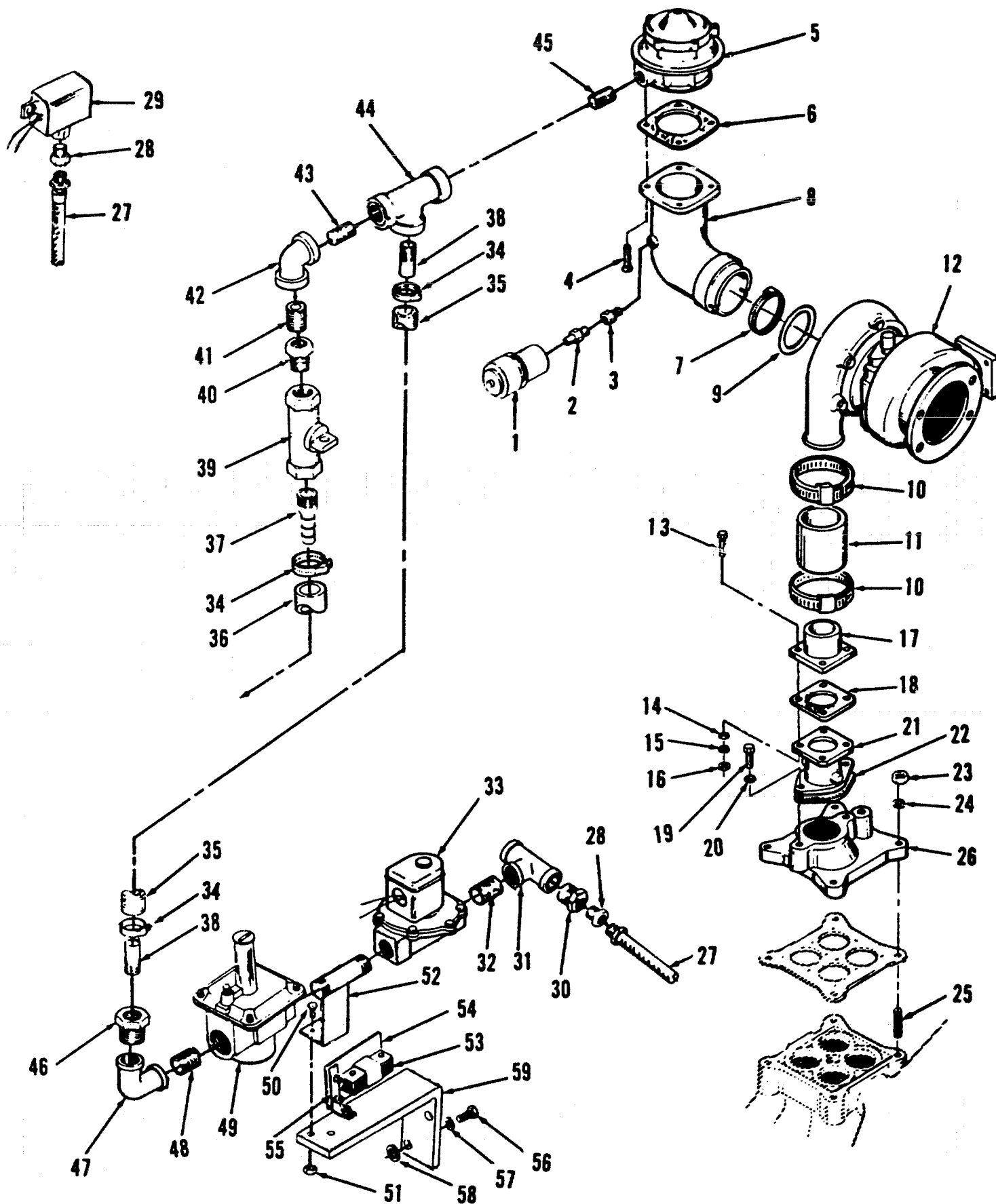
**Dual Fuel System
(LPG Vapor-Natural Gas)
(Automatic/Manual Changeover)**



**Dual Fuel System
(LPG Vapor-Natural Gas)
(Automatic/Manual Changeover)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	32	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/2") - Nat. Gas System
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	33	307-0836	1	Valve, Solenoid - 12 VDC (1 NPT) - Nat. Gas System
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	34	148-0626	1	Valve, Control (1 NPT) - LPG System
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	35	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
5	145-0532	1	Mixer - Air/Gas	36	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
6	145-0540	1	Gasket	37	307-0834	1	Valve, Solenoid - 12 VDC (3/4 NPT) - LPG System
7	503-0998	1	Clamp, Hose - "T" Bar Type	38	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
8	145-0590	1	Elbow - Mixer to Turbocharger	39	148-0637	1	Regulator, Pressure - Gas Vapor (3/4 NPT) - LPG System
9	509-0165	1	"O" Ring	40	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")
10	503-0465	2	Clamp, Hose	41	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)
11	503-1172	1	Hose, Rubber (2-1/2" ID x 3"LG)	42	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")
12			Turbocharger	43	503-0429	2	Clamp, Hose
	145-0541	1	50 Hertz Sets	44	503-1201	1	Hose, Rubber (1"ID x 1-3/8"OD x 12"LG)
	145-0539	1	60 Hertz Sets	45	505-0324	2	Nipple, Pipe - Half (3/4 NPT)
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	46	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	47	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
15	850-0030	4	Washer, Lock - Spring (#10)	48	505-0051	1	Elbow, Pipe - Street, 90° (3/4 NPT)
16	870-0053	4	Nut, Hex (#10-32)	49	505-0166	1	Tee, Pipe (3/4 NPT)
17	145-0528	1	Adapter - Throttle Unit	50	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
18	145-0540	1	Gasket	51	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	52	148-0601	1	Regulator, Pressure - Gas Vapor (1 NPT) - Nat. Gas System
20	850-0050	2	Washer, Lock - Spring (3/8")	53	821-0013	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1")
21	145-0538	1	Body - Carburetor	54	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
22	148-0775	1	Gasket	55	130-0797	1	Nipple, Pipe with Bracket (1 NPT)
23	110-0445	4	Nut, Hex (5/16-24)	56	308-0005	1	Switch, Toggle - Manual System
24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	57	308-0150	1	Bracket, Mounting - Switch - Manual System
25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")	58	306-0155	1	Bracket, Mounting - Manual System
26	145-0482	1	Adapter - Carburetor	59	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
27	501-0010	1	Line, Fuel - Flexible - Auto System	60	850-0050	2	Washer, Lock - Spring (3/8")
28	502-0041	2	Elbow, Pipe - Inverted Male, 90° - Auto System	61	526-0174	2	Washer, Flat (3/8")
29	148-0627	1	Switch, Pressure - 12 VDC - Auto System	62	148-0869	1	Bracket, Mounting
30	505-0020	1	Bushing, Reducer - Hex (3/4 NPT x 1/4 NPT) - Auto System				
31	505-1345	1	Tee, Pipe - Reducing (1 NPT x 1 NPT x 3/4 NPT) - Auto System				

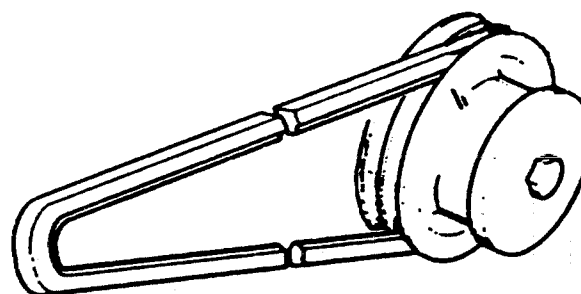
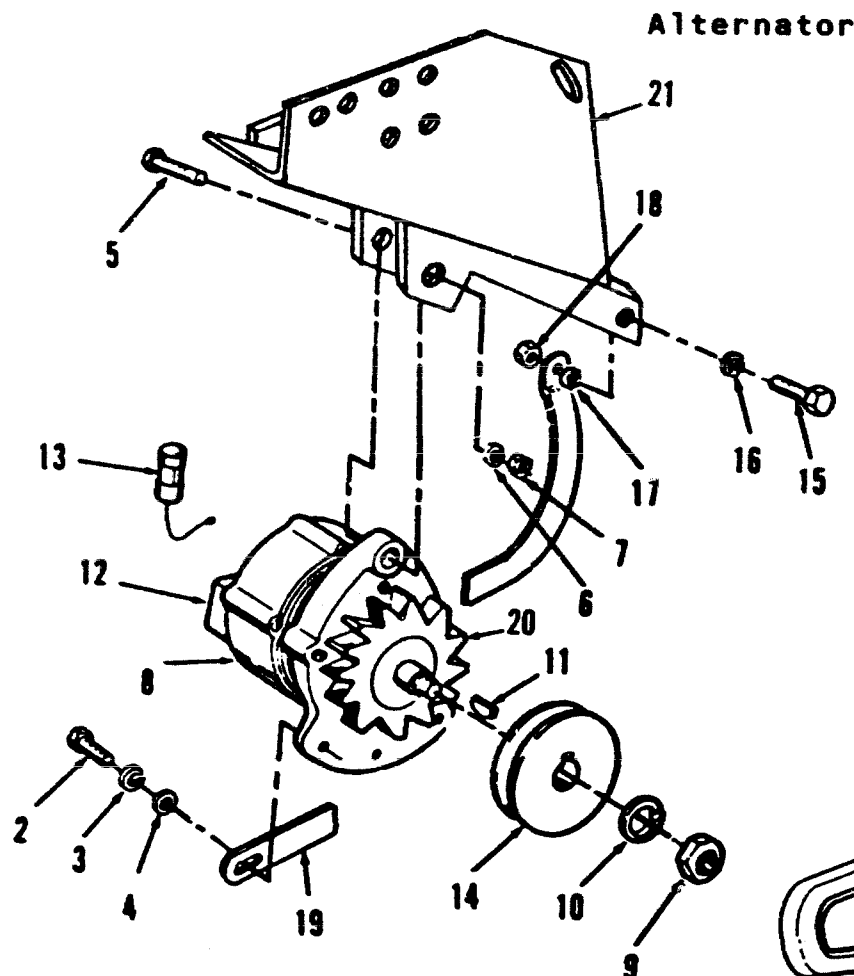
**Dual Fuel System
(LPG Liquid-Natural Gas)
(Automatic/Manual Changeover)**



**Dual Fuel System
(LPG Liquid-Natural Gas)
(Automatic/Manual Changeover)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	32	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/2") - Nat. Gas System
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	33	307-0836	1	Valve, Solenoid - 12 VDC (1 NPT) - Nat. Gas System
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	34	503-0398	3	Clamp, Hose
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	35	503-0792	1	Hose, Rubber (1"ID x 1-3/8"OD x 12-1/2"LG) - Nat. Gas System
5	145-0532	1	Mixer - Air/Gas	36	503-0799	1	Hose, Rubber (1"ID x 1-3/8"OD x 30"LG)
6	145-0540	1	Gasket	37	505-0759	1	Adapter, Pipe to Hose (1 NPT x 1"ID Hose)
7	503-0998	1	Clamp, Hose - "T" Bar Type	38	505-0324	2	Nipple, Pipe - Half (3/4 NPT)
8	145-0590	1	Elbow - Mixer to Turbocharger	39	148-0626	1	Valve, Control (1 NPT) - LPG System
9	509-0165	1	"O" Ring	40	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
10	503-0465	2	Clamp, Hose	41	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
11	503-1172	1	Hose, Rubber (2-1/2" ID x 3"LG)	42	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)
12			Turbocharger	43	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
	145-0541	1	50 Hertz Sets	44	505-0166	1	Tee, Pipe (3/4 NPT)
	145-0539	1	60 Hertz Sets	45	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	46	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	47	505-0041	1	Elbow, Pipe - 90° (1 NPT)
15	850-0030	4	Washer, Lock - Spring (#10)	48	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/2")
16	870-0053	4	Nut, Hex (#10-32)	49	148-0601	1	Regulator, Pressure - Gas Vapor (1 NPT) - Nat. Gas System
17	145-0528	1	Adapter - Throttle Unit	50	821-0013	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1")
18	145-0540	1	Gasket	51	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	52	130-0797	1	Nipple, Pipe with Bracket (1 NPT)
20	850-0050	2	Washer, Lock - Spring (3/8")	53	308-0005	1	Switch, Toggle - Manual System
21	145-0538	1	Body - Carburetor	54	308-0150	1	Bracket, Mounting - Switch - Manual System
22	148-0775	1	Gasket	55	306-0155	1	Bracket, Mounting - Manual System
23	110-0445	4	Nut, Hex (5/16-24)	56	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	57	850-0050	2	Washer, Lock - Spring (3/8")
25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")	58	526-0174	2	Washer, Flat (3/8")
26	145-0482	1	Adapter - Carburetor	59	148-0869	1	Bracket, Mounting
27	501-0011	1	Line, Fuel - Flexible - Auto System				
28	502-0033	2	Connector, Line - Inverted Male - Auto System				
29	148-0627	1	Switch, Pressure - 12 VDC - Auto System				
30	505-0020	1	Bushing, Reducer - Hex (3/4 NPT x 1/4 NPT) - Auto System				
31	505-1345	1	Tee, Pipe - Reducing (1 NPT x 1 NPT x 3/4 NPT) - Auto System				



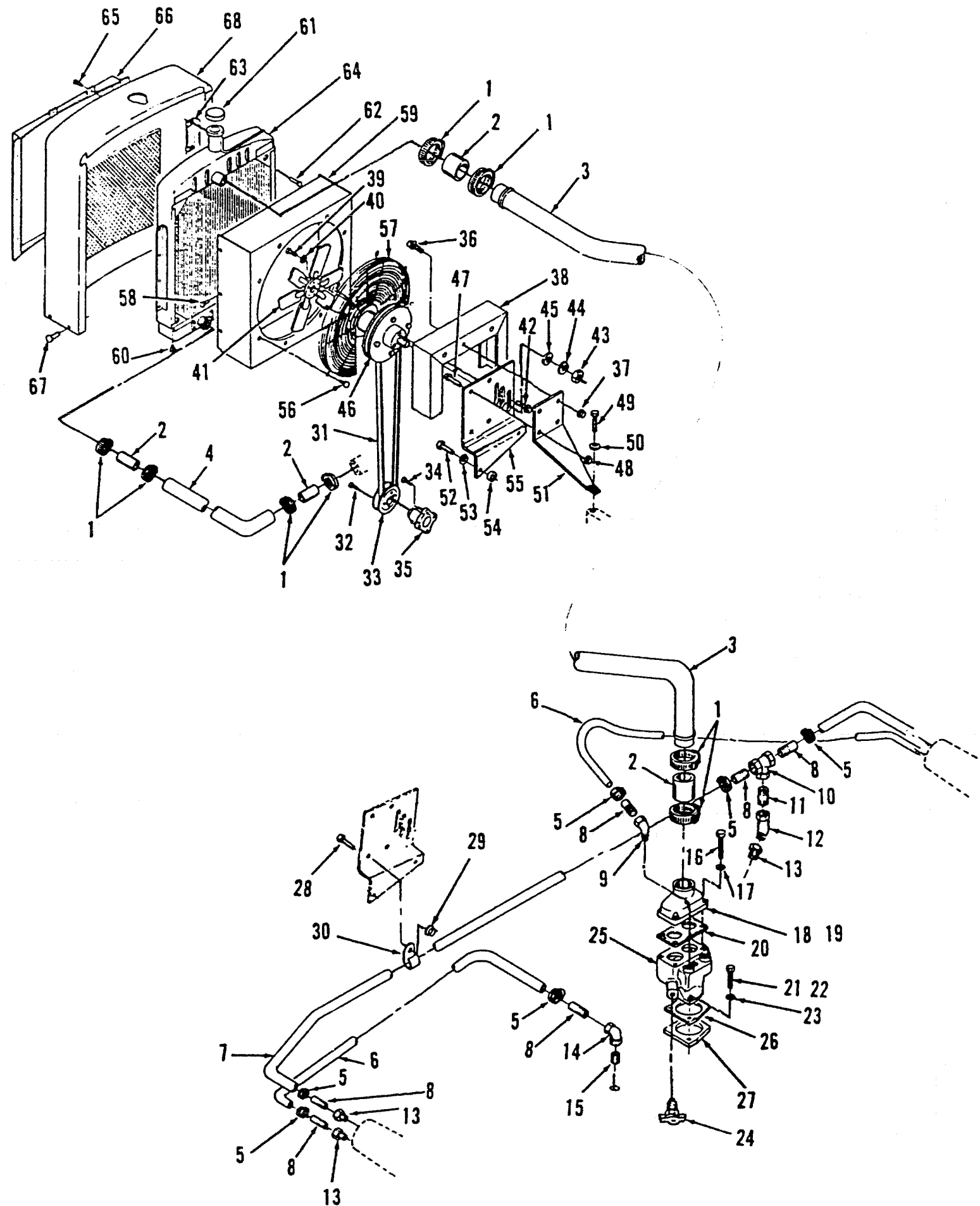


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0131	1	Belt, Drive - V Used with both Motorola and Bosch Alternator on Mechanical Governor
	511-0092	1	Used with Motorola Alternator and Electrical Governor
	511-0156	1	Used with Bosch Alternator and Electrical Governor
2	800-0027	1	Screw, Cap - Hex Head Used with Motorola Alternator (5/16-18 x 7/8")
	800-2058	1	Used with Bosch Alternator (M8 x 1-1/4 x 25)
3	850-0045	1	Washer, Lock - Spring Used with Motorola Alternator (5/16")
	850-2008	1	Used with Bosch Alternator (M8)
4	526-0115	1	Washer, Flat Used with Motorola Alternator (11/32" ID x 11/16" OD x 1/16" Thk)
	526-2106	1	Used with Bosch Alternator (M8)
5	800-0095	1	Screw, Cap - Hex Head Used with Motorola Alternator (1/2-13 x 2-1/2")
	800-2097	1	Used with Bosch Alternator (M10 x 1-1/2 x 80)
6	850-0065	1	Washer, Lock - Spring (1/2")
7	862-0005	1	Nut, Hex Used with Motorola Alternator (1/2-13)
	870-2056	1	Used with Bosch Alternator (Self-Locking M10 x 1-1/2)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	191-1388	1	Alternator - 12 VDC (Includes Parts Marked *) Motorola
	191-1982-01	1	Bosch (Does Not Include Fan)
9	868-0007	1	*Nut, Hex (5/8-18)
10	850-0070	1	*Washer, Lock - Spring (5/8")
11	515-0093	1	*Key, Woodruff (#5)
12	191-1390	1	*Regulator, Voltage
13	312-0201	1	*Capacitor
14	191-1099	1	Pulley Spec A and B (Used with Motorola Alternator)
	191-1982	1	Spec C (Used with Bosch Alternator)
15	800-0029	1	Screw, Cap - Hex Head (5/16-18 x 1-1/8")
16	850-0045	1	Washer, Lock - Spring (5/16")
17	191-0864	1	Spacer
18	862-0015	1	Nut, Hex (5/16-18)
19	191-1203	1	Arm, Adjusting
20	191-1981	1	Fan (Bosch Alternator)
21	191-1564	1	Bracket, Mounting Used with Motorola Alternator and Electric Governor
	150-1521	1	Used with Motorola Alternator and Mechanical Governor
	191-2026	1	Used with Bosch Alternator and Electric Governor
	191-2025	1	Used with Bosch Alternator and Mechanical Governor

* - Parts Included With 191-1388 Alternator.

Cooling System (Radiator)

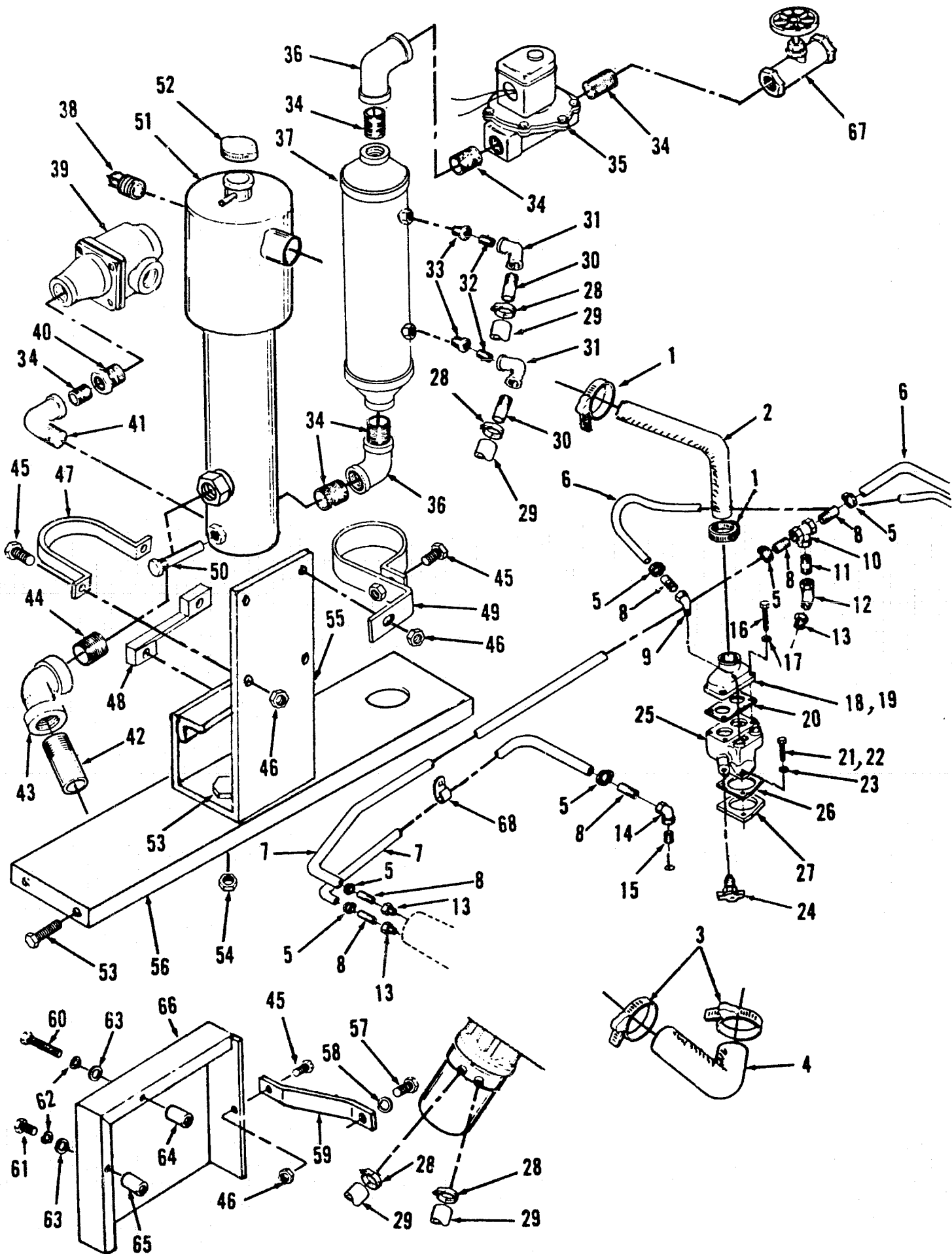


Cooling System (Radiator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	8	Clamp, Hose	40	526-0122	6	Washer, Flat (11/32"ID x 23/32"OD x 1/8"THK)
2	503-0571	4	Hose, Rubber (2"ID x 2-3/8"OD x 2"LG)	41	130-1997	1	Fan
3	130-1998	1	Tube, Coolant - Upper	42	821-0016	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
4	130-1999	1	Tube, Coolant - Lower	43	862-0016	1	Nut, Hex (1/2-13)
5	503-0183	8	Clamp, Hose	44	850-0060	1	Washer, Lock - Spring (1/2")
6	503-0833	3	Hose, Rubber (5/8"ID x 24"LG)	45	526-0035	1	Washer, Flat (17/32"ID x 7/8"OD x 1/8"THK)
7	503-1168	1	Hose, Rubber (5/8"ID x 36"LG)	46	130-0981	1	Hub & Pulley Assembly (Includes the following non-illustrated replaceable parts marked *)
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")				
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)				
10	505-0060	1	Tee, Pipe (3/8 NPT)		821-0010	4	* Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")		512-0059	1	* Pulley
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)		518-0342	2	* Clip, Retaining
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)		130-0972	1	* Collar
14	505-0039	1	Elbow, Pipe - 90° (3/8 NPT)		130-0970	1	* Bearing
15	505-0101	1	Nipple, Pipe - Close (3/8 NPT x 1")		130-0969	1	* Hub
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	47	821-0016	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
17	850-0045	4	Washer, Lock - Spring (5/16")	48	870-0048	2	Nut, Self-locking - Hex Washer Head (5/16-18)
18	309-0477	1	Cover - Thermostat Housing	49	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")
19	309-0476	2	Thermostat	50	850-0050	1	Washer, Lock - Spring (3/8")
20	309-0479	1	Gasket	51	130-0973	1	Brace
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	52	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	53	850-0050	1	Washer, Lock - Spring (3/8")
23	850-0045	3	Washer, Lock - Spring (5/16")	54	191-0864	1	Spacer
24	504-0005	1	Cock, Drain (1/8 NPT)	55	130-0971	1	Bracket, Mounting - Fan Drive
25	309-0480	1	Base - Thermostat Housing	56	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
26	130-1024	2	Gasket	57	130-0986	1	Guard, Fan
27	130-2000	1	Spacer	58	815-0181	12	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 1/2")
28	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	59	130-1985	1	Shroud, Fan
29	870-0133	1	Nut, Self-locking - Hex Washer Head (3/8-16)	60	504-0003	1	Cock, Drain (1/4 NPT)
30	148-0274	2	Bracket, "J"	61	130-2128	1	Cap, Radiator
31	511-0084	1	Belt, Drive	62	821-0014	6	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
32	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	63	870-0113	6	Nut, Retainer (5/16-18)
33	512-0136	1	Pulley	64	130-1996	1	Radiator
34	800-0055	4	Screw, Cap - Hex Head (3/8-16 x 2-1/4")	65	815-0181	10	Screw, Cap - Hex Head with ET Lockwasher (#10-32 x 1/2")
35	130-0968	1	Adapter - Drive Pulley	66	405-2870	1	Flange - Air Duct
36	821-0016	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	67	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
37	870-0048	2	Nut, Self-locking - Hex Washer Head (5/16-18)	68	405-2869	1	Panel, Housing - Front
38	130-0989	1	Guard, Belt				
39	821-0016	6	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")				

* - Parts Included in 130-0981 Hub & Pulley Assembly.

Cooling System (Heat Exchanger)

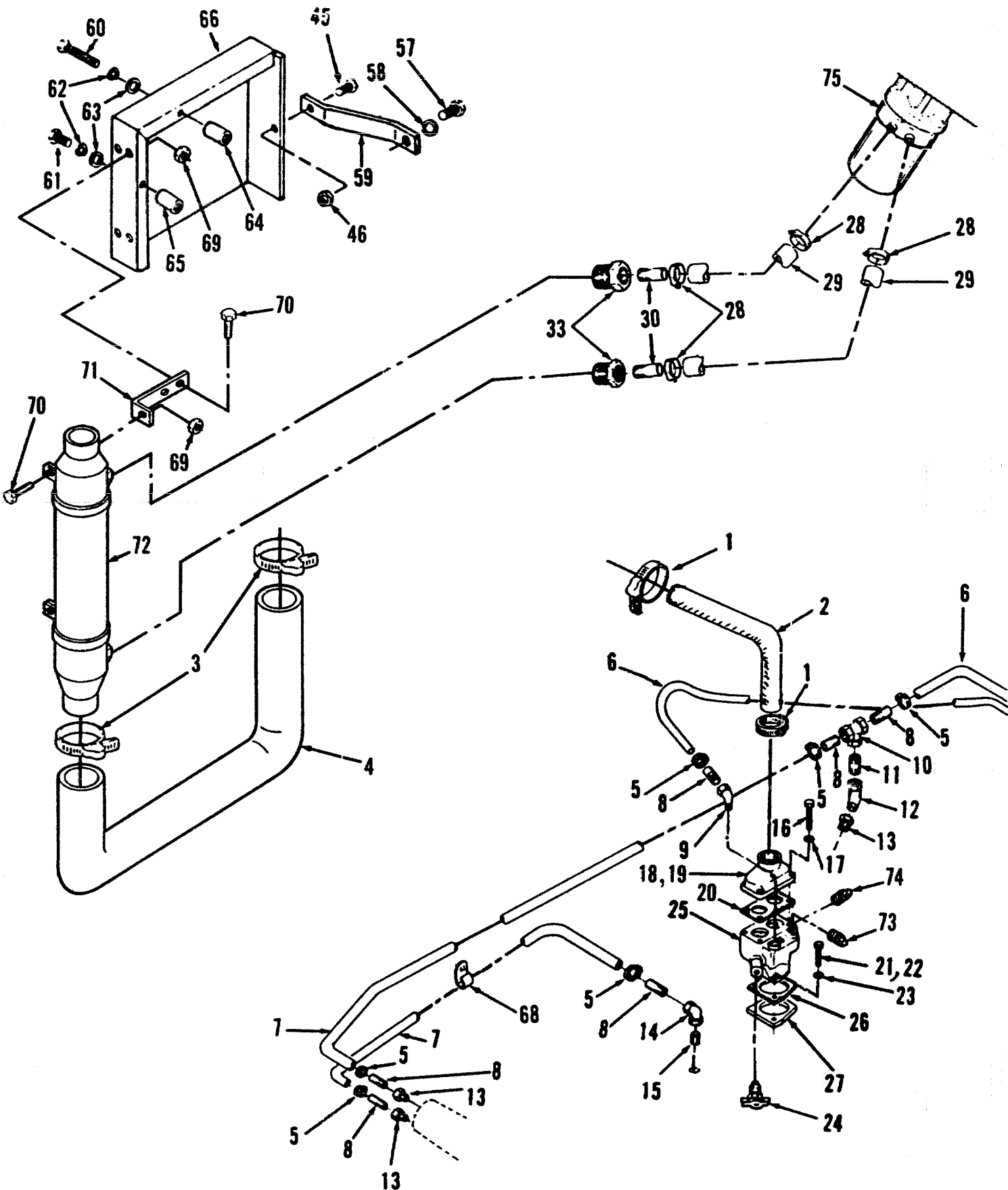


Cooling System (Heat Exchanger)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	2	Clamp, Hose	37	102-1114	1	Cooler, Oil
2	503-0846	1	Hose, Rubber - Lower (2"ID x 2-3/8"OD x 20"LG)	38	505-0130	1	Plug, Pipe (3/4 NPT)
3	503-0274	2	Clamp, Hose	39	505-1301	1	#Valve, Control - Temperature Regulating (1 NPT)
4	503-0753	1	Hose, Rubber - Upper (2"ID x 2-3/8"OD x 24"LG)	40	505-0129	1	#Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
5	503-0183	8	Clamp, Hose	41	505-0051	1	#Elbow, Pipe - Street, 90° (3/4 NPT)
6	503-0833	2	Hose, Rubber (5/8"ID x 24"LG)	42	505-0385	1	Nipple, Pipe - Half (1-1/2 NPT x 2")
7	503-1168	2	Hose, Rubber (5/8"ID x 36"LG)	43	505-0043	1	Elbow, Pipe - 90° (1-1/2 NPT)
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	44	505-0109	1	Nipple, Pipe (1-1/2 NPT x 2-1/2")
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)	45	821-0011	7	Screw, Self-locking - Hex Washer Head (1/4-20 x 7/8")
10	505-0060	1	Tee, Pipe (3/8 NPT)	46	870-0212	7	Nut, Self-locking - Hex Washer Head (1/4-20)
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")	47	130-0802	2	Strap, Holddown - Heat Exchanger
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)	48	130-1112	1	Strap, Support
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)	49	102-1159	1	Support - Oil Cooler
14	505-0039	3	Elbow, Pipe - 90° (3/8 NPT)	50	130-1340	1	Pencil, Zinc (3/8 NPT)
15	505-0101	3	Nipple, Pipe - Close (3/8 NPT x 1")	51	130-2162	1	Heat Exchanger (Includes Cap)
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	52	130-0661	1	Cap, Heat Exchanger (7 LB PSI)
17	850-0045	4	Washer, Lock - Spring (5/16")	53	821-0016	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
18	309-0477	1	Cover - Thermostat Housing	54	870-0048	3	Nut, Self-locking - Hex Washer Head (5/16-18)
19	309-0476	2	Thermostat	55	130-1110	1	Bracket, Mounting
20	309-0479	1	Gasket	56	130-0805	1	Bracket, Mounting - Heat Exchanger
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	57	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	58	850-0055	1	Washer, Lock - Spring (7/16")
23	850-0045	3	Washer, Lock - Spring (5/16")	59	130-2245	1	Strap
24	504-0005	1	Cock, Drain (1/8 NPT)	60	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
25	309-0480	1	Base - Thermostat Housing	61	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
26	130-1024	2	Gasket	62	850-0050	2	Washer, Lock - Spring (3/8")
27	130-2000	1	Spacer	63	526-0174	2	Washer, Flat (3/8")
28	503-0446	4	Clamp, Hose	64	130-2243	1	Spacer, Sleeve
29	503-1099	2	Hose, Rubber (1/2"ID x 7/8"OD x 29"LG)	65	130-2244	1	Spacer, Sleeve
30	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")	66	130-1050	1	Guard, Belt
31	505-0038	2	Elbow, Pipe - 90° (1/4 NPT)	67	504-0046	1	*Valve, Globe (3/4 NPT)
32	505-0099	2	Nipple, Pipe - Close (1/4 NPT x 7/8")	68	148-0274	2	Bracket, "J"
33	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)				
34	505-0102	6	Nipple, Pipe (3/4 NPT x 1-3/8")				
35	307-0835	1	Valve, Solenoid - 12 VDC (3/4 NPT)				
36	505-0132	2	Elbow, Pipe - 90° (3/4 NPT)				

* - Parts used on Non-Regulated Systems.
- Parts used on Regulated Systems.

Cooling System (Remote Radiator)

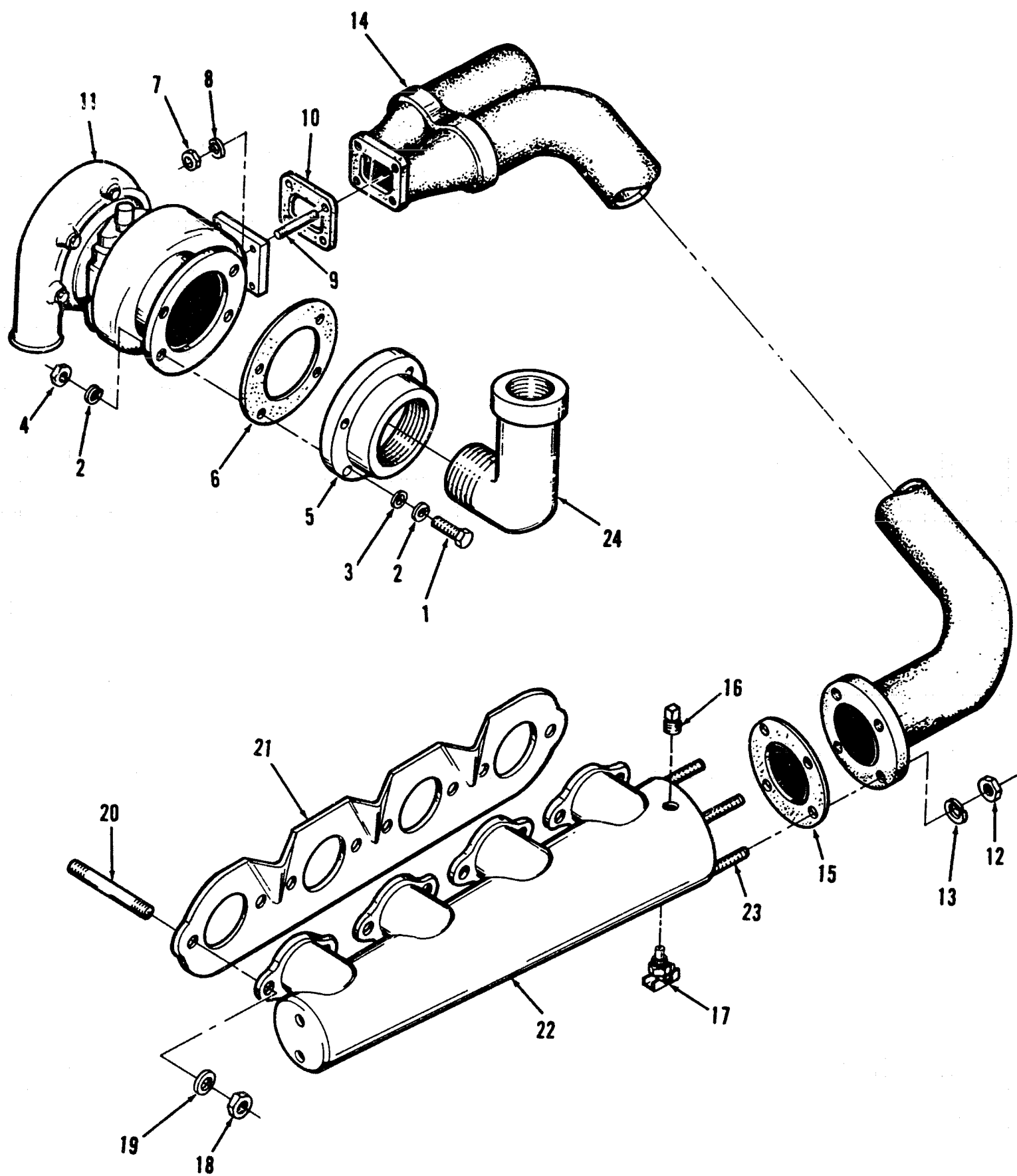


Cooling System (Remote Radiator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	2	Clamp, Hose	29	503-1099	2	Hose, Rubber (1/2"ID x 7/8"OD x 29"LG)
2	503-0753	1	Hose, Rubber - Lower (2"ID x 2-3/8"OD x 24"LG)	30	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")
3	503-0274	2	Clamp, Hose	33	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)
4	503-0753	1	Hose, Rubber - Upper (2"ID x 2-3/8"OD x 24"LG)	45	821-0011	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 7/8")
5	503-0183	8	Clamp, Hose	46	870-0212	7	Nut, Self-locking - Hex Washer Head (1/4-20)
6	503-0833	2	Hose, Rubber (5/8"ID x 24"LG)	57	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
7	503-1168	2	Hose, Rubber (5/8"ID x 36"LG)	58	850-0055	1	Washer, Lock - Spring (7/16")
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	59	130-2245	1	Strap
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)	60	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
10	505-0060	1	Tee, Pipe (3/8 NPT)	61	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")	62	850-0050	2	Washer, Lock - Spring (3/8")
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)	63	526-0174	2	Washer, Flat (3/8")
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)	64	130-2243	1	Spacer, Sleeve
14	505-0039	3	Elbow, Pipe - 90° (3/8 NPT)	65	130-2244	1	Spacer, Sleeve
15	505-0101	3	Nipple, Pipe - Close (3/8 NPT x 1")	66	130-1050	1	Guard, Belt
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	68	148-0274	2	Bracket, "J"
17	850-0045	4	Washer, Lock - Spring (5/16")	69	870-0281	6	*Nut, Hex - Self-locking (3/8-16)
18	309-0477	1	Cover - Thermostat Housing	70	821-0029	6	*Screw, Cap - Hex Head (3/8-16 x 3/4")
19	309-0476	2	Thermostat	71	102-1244	2	*Bracket, Mounting - Oil Cooler
20	309-0479	1	Gasket	72	102-1238	1	*Cooler, Oil (Includes Two Mounting Clamps)
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	73	505-0110	1	Plug, Pipe - Square Head (3/8")
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	74	505-0013	1	Plug, Pipe - Square Head (1/2")
23	850-0045	3	Washer, Lock - Spring (5/16")	75	102-1097	1	Adapter, Oil Cooler (Includes "O" Ring and Hex Adapter)
24	504-0005	1	Cock, Drain (1/8 NPT)				
25	309-0480	1	Base - Thermostat Housing				
26	130-1024	2	Gasket				
27	130-2000	1	Spacer				
28	503-0446	4	Clamp, Hose				

* - Use Began During April, 1986 During Spec A

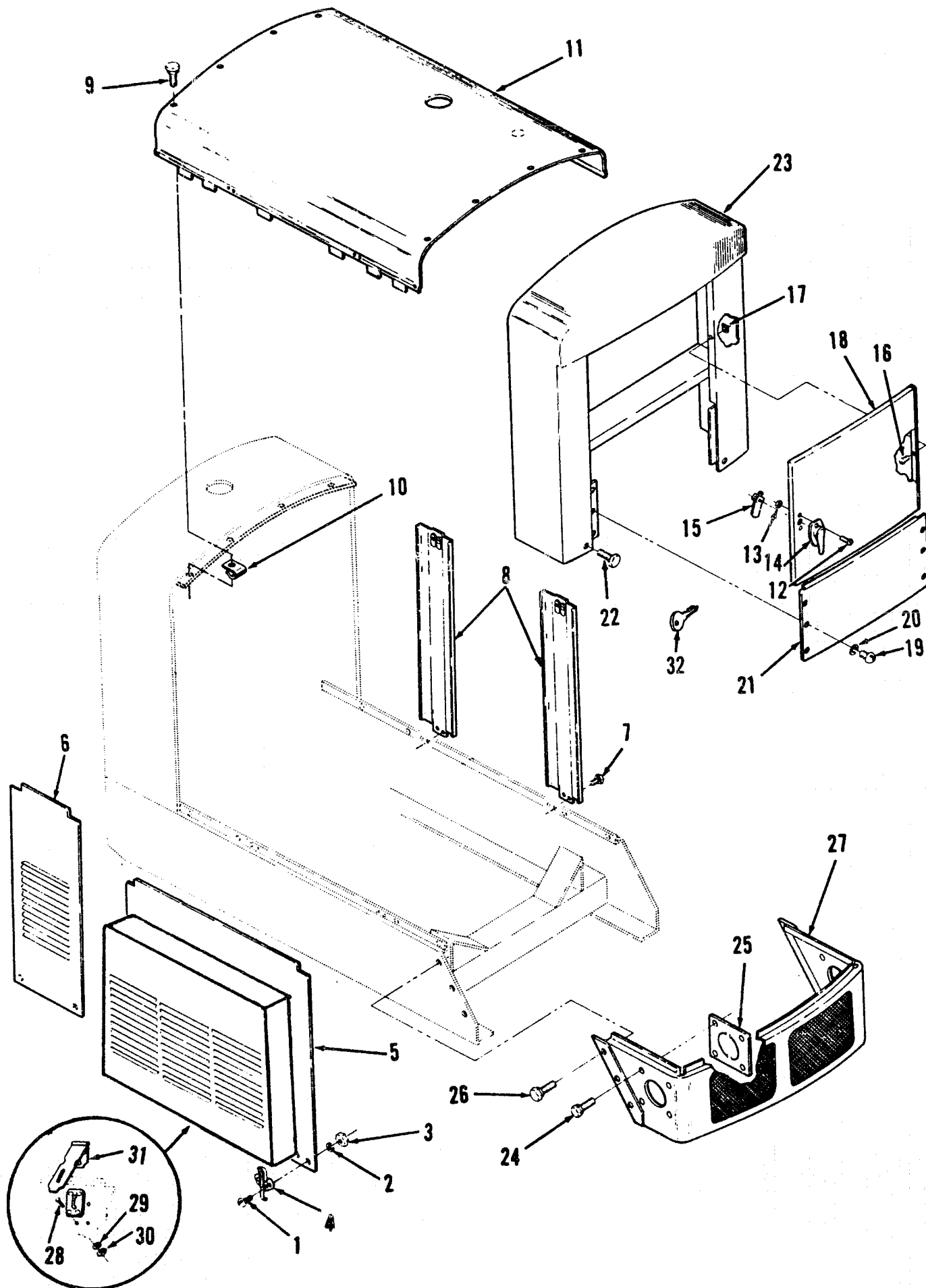
Exhaust System



Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0052	4	Screw, Cap - Hex Head (3/8-16 x 1-1/2")	14	155-1891	1	Tube Assembly - Exhaust
2	850-0045	8	Washer, Lock - Spring (5/16")	15	154-2336	2	Gasket
3	526-0022	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	16	505-0057	2	Plug, Pipe - Square Head (1/8 NPT)
4	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)	17	504-0005	2	Cock, Drain (1/8 NPT)
5	154-1739	1	Flange, Pipe - Exhaust Outlet	18	870-0130	16	Nut, Hex - Self-locking (3/8-24)
6	155-1886	1	Gasket	19	526-0188	16	Washer, Flat (5/16")
7	862-0003	4	Nut, Hex (3/8-16)	20	520-0819	16	Stud (3/8-24 x 3/8-16 x 1-7/8)
8	850-0050	4	Washer, Lock - Spring (3/8")	21	155-1923	2	Gasket
9	520-0925	4	Stud - SST (3/8-16 x 1-1/4")	22	154-1766	2	Manifold, Exhaust - Liquid Cooled (Includes End Mounting Studs)
10	145-0533	1	Gasket	23	520-0165	8	Stud (5/16-24 x 5/16-18 x 1-7/8")
11	145-0541	1	Turbocharger 50 Hertz Sets	24	505-0216	1	Elbow, Pipe - Street, 90° (2-1/2 NPT)
	145-0539	1	60 Hertz Sets				
12	870-0195	8	Nut, Self-locking - Hex (5/16-24)				
13	850-0165	4	Washer, Lock - Spring - SST (5/16")				

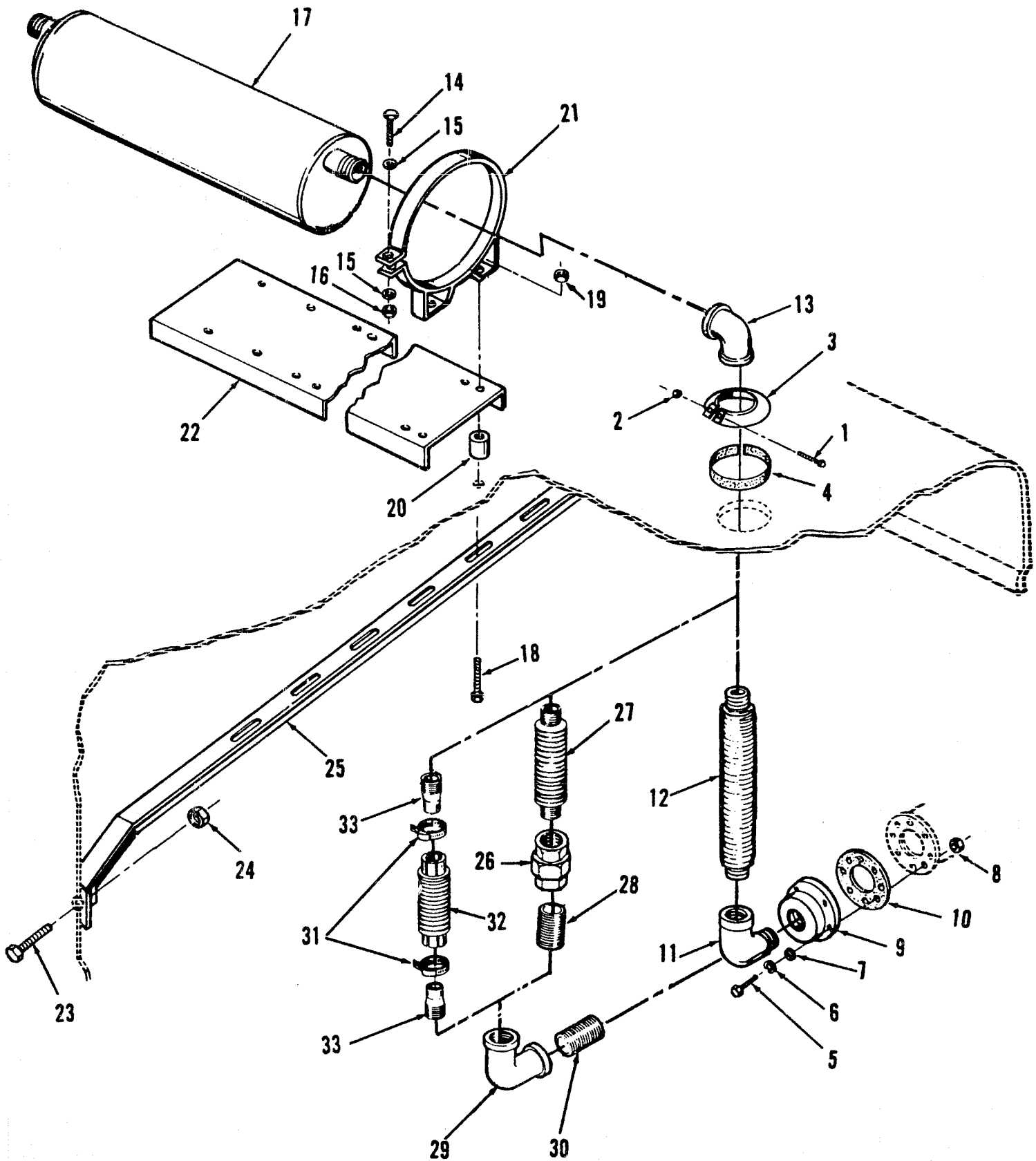
Set Housing



Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0098	8	Screw, Machine - Round Head (#10-32 x 3/8")	17	870-0106	3	Nut, Sheet Spring (1/4")
2	850-0030	8	Washer, Lock - Spring (#10)	18	405-1777	1	Door, Access - Rear
3	870-0053	8	Nut, Hex (#10-32)	19	813-0098	6	Screw, Machine - Round Head (#10-32 x 3/8")
4	406-0105	4	Fastener, Door	20	850-0030	6	Washer, Lock - Spring (#10)
5	405-1774	2	Door, Access - Louvered (Does Not Include Fastener)	21	405-1780	1	Panel, Access - Rear
6	405-3012	4	Panel, Access - Louvered (Does Not Include Fastener)	22	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
7	821-0014	28	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	23	405-1775	1	Panel, Housing - Rear
8	405-1776	4	Support, Housing - Center	24	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
9	821-0014	12	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	25	403-0895	2	Plate, Cover
10	870-0113	12	Nut, Clinch (5/16-18)	26	821-0029	6	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
11	405-3027	1	Panel, Housing - Top	27	403-0894	1	Chassis, Rear
12	812-0149	2	Screw, Machine - Round Head (1/4-20 x 9/16")	28	814-0079	28	Screw, Machine - Flat Head (#8-32 x 1/2")
13	870-0232	2	Nut, Self-locking - Hex with ET Lockwasher (1/4-20)	29	850-0025	28	Washer, Lock - Spring (#8)
14	406-0157	1	Handle (Includes Key)	30	860-0008	28	Nut, Hex (#8-32)
15	406-0089	1	Catch, Latch	31	406-0249	4	Hasp Set
16	809-0059	3	Screw, Tapping - Pan Head (1/4 x 1/2")	32	406-0565	1	Key - Handle

Exhaust Muffler

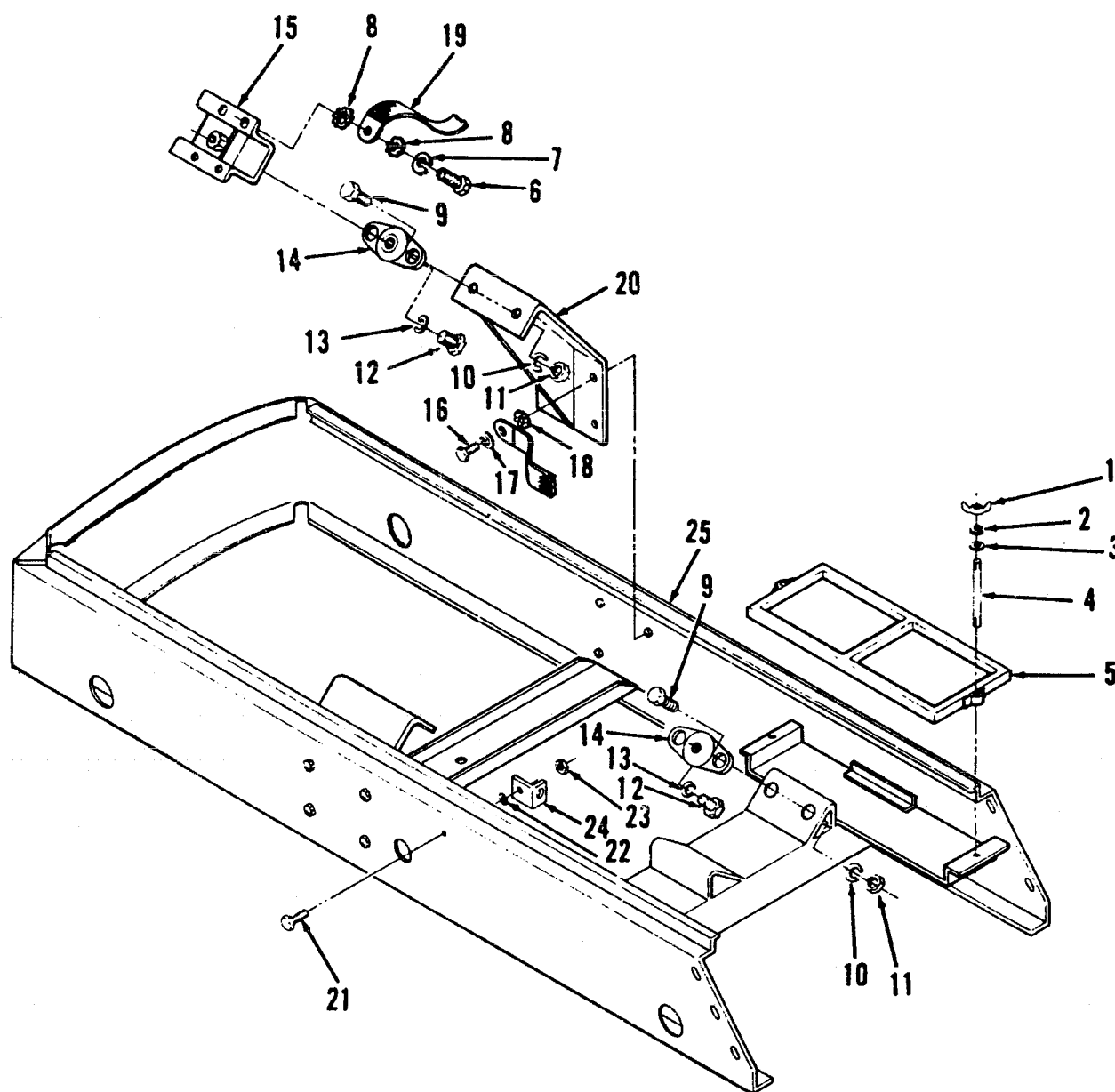


Exhaust Muffler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0105	2	Screw, Machine - Round Head (#10-32 x 1")	20	155-1430	4	Spacer, Sleeve (1/2"ID x 1-1/2"OD x 2"THK)
2	870-0188	2	Nut, Self-locking - Hex (#10-32)	21	140-0752	2	Band, Mounting (12"ID)
3	155-1422	1	Shield, Rain	22	155-1947	1	Shield, Heat
4	895-0160	1	Strip, Asbestos (2"W x 1/16"THK x 13-1/2"LG)	23	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
5	800-0031	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	24	870-0048	4	Nut, Self-locking - Hex (5/16-18)
6	850-0045	8	Washer, Lock - Spring (5/16")	25	155-0789	2	Bracket, Support - Muffler Mounting
7	526-0022	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	26	505-0702	1	*Union (3 NPT) July 1982 thru 1983
8	862-0014	4	Nut, Hex (5/16-18)	27	155-1592	1	*Tube, Exhaust - Flexible (3 NPT x 12"LG) July 1982 thru 1983
9	154-1739	1	Flange - Exhaust Manifold	28	505-0382	1	*Nipple, Pipe - Close (3 NPT) July 1982 thru 1983
10	155-1886	1	Gasket	29	505-0668	1	*Elbow, Pipe - 90°, Reducing (3 NPT x 2-1/2 NPT) Begin July 1982
11	505-0216	1	*Elbow, Pipe - Street, 90° (2-1/2 NPT) Thru June 1982	30	505-0103	1	*Nipple, Pipe - Close (2-1/2 NPT) Begin July 1982
12	155-1948	1	*Tube, Exhaust - Flexible, Reducing (3 NPT x 2-1/2 NPT x 13-1/4"LG) Thru June 1982	31	503-0965	2	*Clamp, Hose - Begin 1984
13	505-1168	1	Elbow, Pipe - 90°, Reducing (4 NPT x 3 NPT)	32	155-1489	1	*Tube, Exhaust - Flexible (3"ID x 9"LG) Begin 1984
14	800-0037	2	Screw, Cap - Hex Head (5/16-18 x 3")	33	155-1463	2	*Connector, Exhaust (3 NPT) Begin 1984
15	526-0113	4	Washer, Flat (11/32"ID x 11/16"OD x 1/16"THK)				
16	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)				
17	155-1021	1	Muffler, Exhaust				
18	800-0037	4	Screw, Cap - Hex Head (5/16-18 x 3")				
19	870-0048	4	Nut, Self-locking, - Hex (5/16-18)				

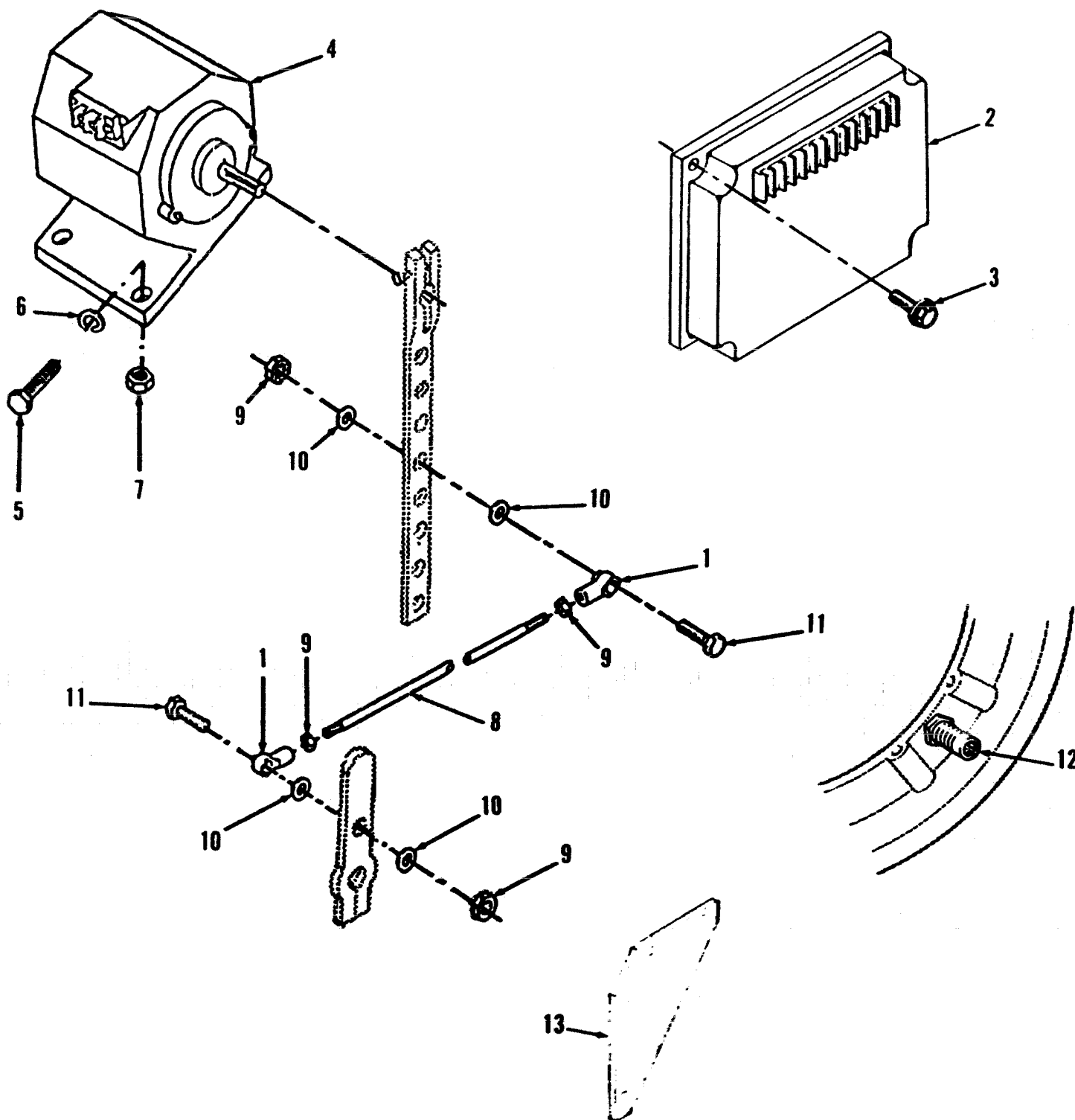
* - NOTE: Various Factory Installed Systems;
Recommended Replacement Using Latest Design Parts.

Chassis



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	865-0007	2	Nut, Wing (5/16-18)	13	850-0079	4	Washer, Lock - Spring (3/4")
2	850-0045	2	Washer, Lock - Spring (5/16")	14	402-0371	4	Mount, Vibration
3	526-0115	2	Washer, Flat (11/32"ID x 11/16"OD x 1/16"THK)	15	403-1193	2	Support, Mounting - Engine
4	520-0231	2	Stud (5/16-18 x 5/16-24 x 7-9/16"LG)	16	800-0071	8	Screw, Cap - Hex Head (7/16-14 x 1")
5	416-0338	1	Frame, Holddown - Battery	17	850-0055	8	Washer, Lock - Spring (7/16")
6	800-0071	6	Screw, Cap - Hex Head (7/16-14 x 1")	18	856-0013	8	Washer, Lock - EIT (1/2")
7	850-0055	8	Washer, Lock - Spring (7/16")	19	337-0090	1	Strap, Electrical - Ground
8	856-0013	8	Washer, Lock - EIT (1/2")	20	403-1194	2	Bracket, Mounting - Engine
9	800-0071	8	Screw, Cap - Hex Head (7/16-14 x 1")	21	821-0016	1	Screw, Self-locking - Hex Washer Head (5/16-18 x 1")
10	850-0055	8	Washer, Lock - Spring (7/16")	22	856-0008	1	Washer, Lock - EIT (5/16")
11	862-0004	8	Nut, Hex (7/16-14)	23	870-0257	1	Nut, Self-locking - Hex Washer Head (5/16-18)
12	800-0152	4	Screw, Cap - Hex Head (3/4-10 x 1-1/4")	24	332-1473	1	Terminal, Lug - Ground
				25	403-1942	1	Chassis

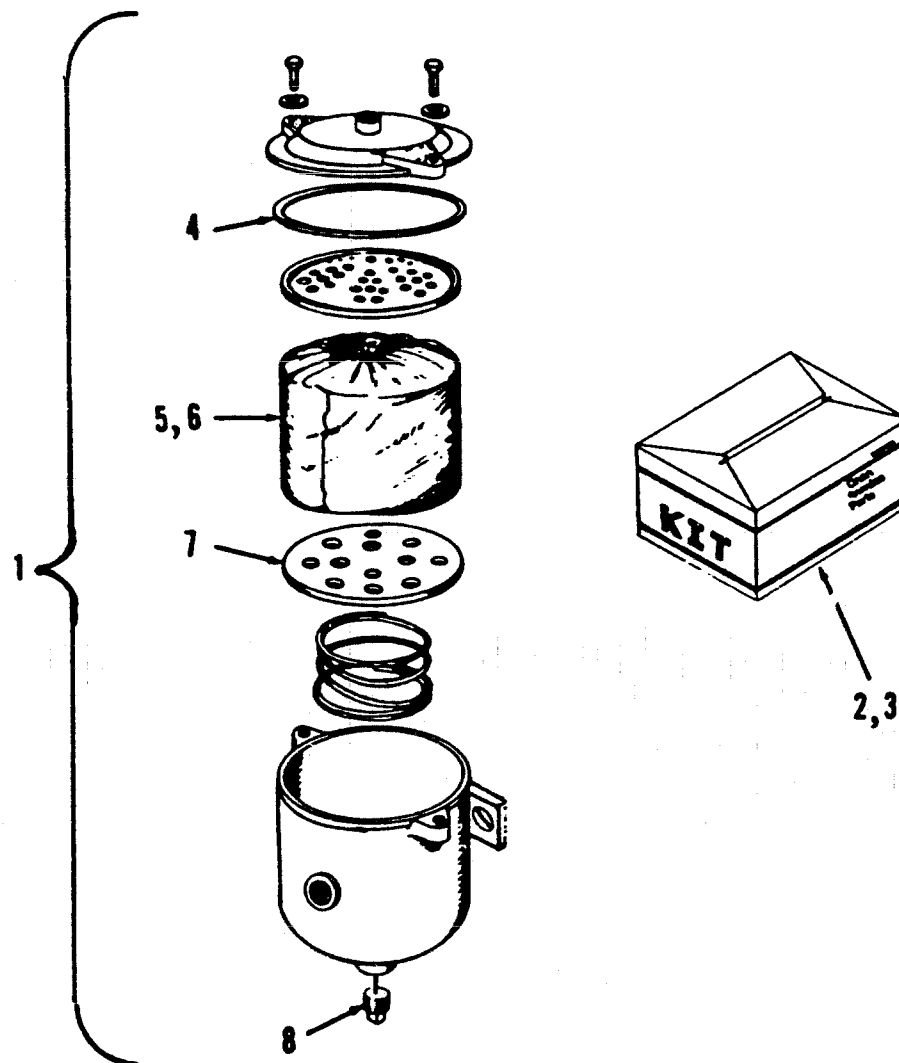
Governor - Electronic



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1898	1	Governor Package (Barber Coleman Part No. DYNK 10117)
2	151-0605	1	Controller, Governor
3	821-0005	4	Screw, Self-Locking - Hex Washer Head (10-32 x 1/2")
4	151-0566	1	Actuator
5	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")
6	850-0040	4	Washer, Lock - Spring (1/4)

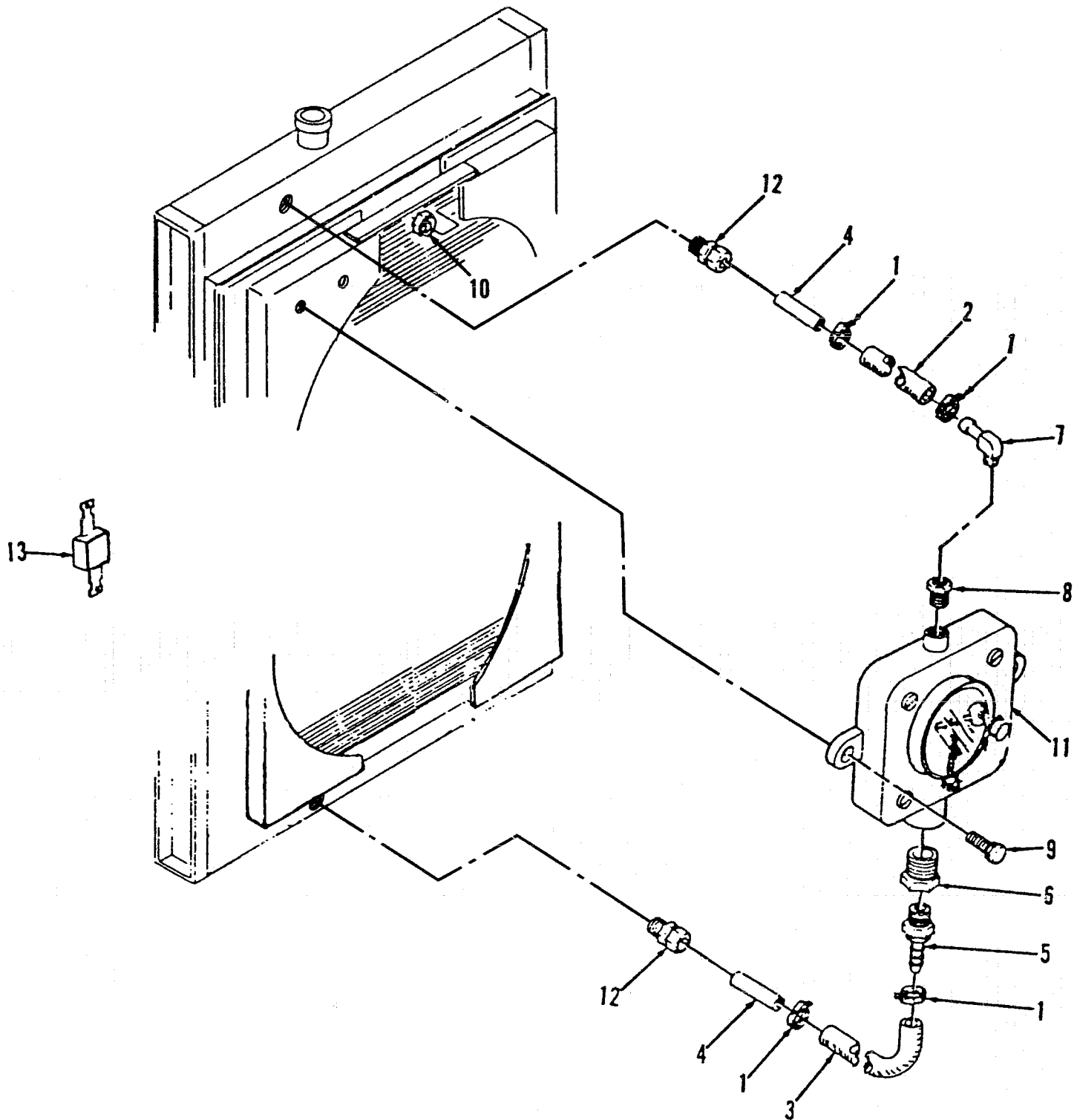
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	862-0001	4	Nut, Hex (1/4-20)
8	520-0086	1	Stud (#10-32 x 4-3/4")
9	870-0131	4	Nut, Self-Locking - Hex External Tooth
10	526-0008	4	Washer, Flat
11	821-0003	2	Screw, Self-Locking - Hex Head
12	151-0411	1	Pickup, Magnetic (Engine to Generator Adapter Mounted)
13	370-2010	1	Gusset

Filter - Coolant



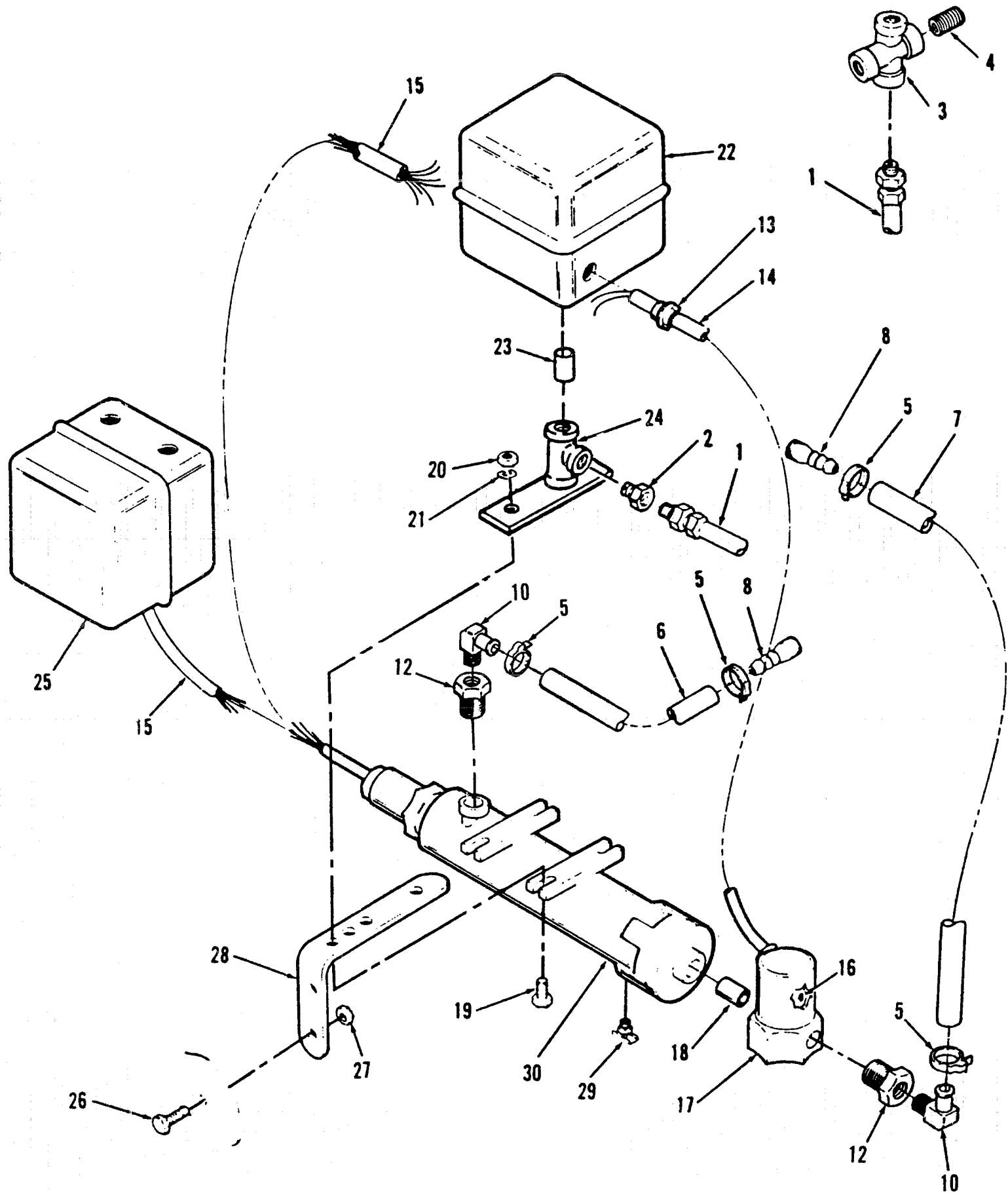
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0497	1	Filter, Coolant (Includes Parts Marked @)	6	130-0776	1	#Element (Anti-freeze)
2	130-0771	1	Kit, Element (Includes Parts Marked *)	7	130-0780	1	*#@Plate, Sacrificial
3	130-0772	1	Kit, Element (Includes Parts Marked #)	8	502-0155	1	@Plug, Pipe - Brass (3/8 NPT)
4	130-0778	1	*#@Gasket, Cover	@ - Parts Included in Coolant Filter. * - Parts Included in Element (Water) Kit. # - Parts Included in Element (Anti-freeze) Kit.			
5	130-0775	1	*@Element (Water)				

Switch - Low Coolant Level



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0446	4	Clamp, Hose	9	821-0011	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 7/8")
2	503-0743	1	Hose, Rubber (1/4"ID x 18"LG)	10	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
3	503-1118	1	Hose, Rubber (1/4"ID x 48"LG)	11	193-0329	1	Switch, Coolant Level
4	130-2053	2	Tube - Copper (1/4"OD x 2"LG)	12	502-0809	2	Adapter, Tube (Blind Hole Fitting) 5/8"OD x 1/4"OD Tube
5	503-0395	1	Connector, Pipe to Hose (1/8 NPT x 3/16"ID Hose)	13	357-0030	2	Diode, Rectifier (Used in Wiring Harness Leads)
6	505-0151	1	Bushing, Reducer - Hex, Brass (1/2 NPT x 1/8 NPT)				
7	502-0313	1	Elbow, Pipe to Hose - 90° (1/8 NPT x 1/4"ID Hose)				
8	505-0007	1	Bushing, Reducer - Hex, Brass (1/4 NPT x 1/8 NPT)				

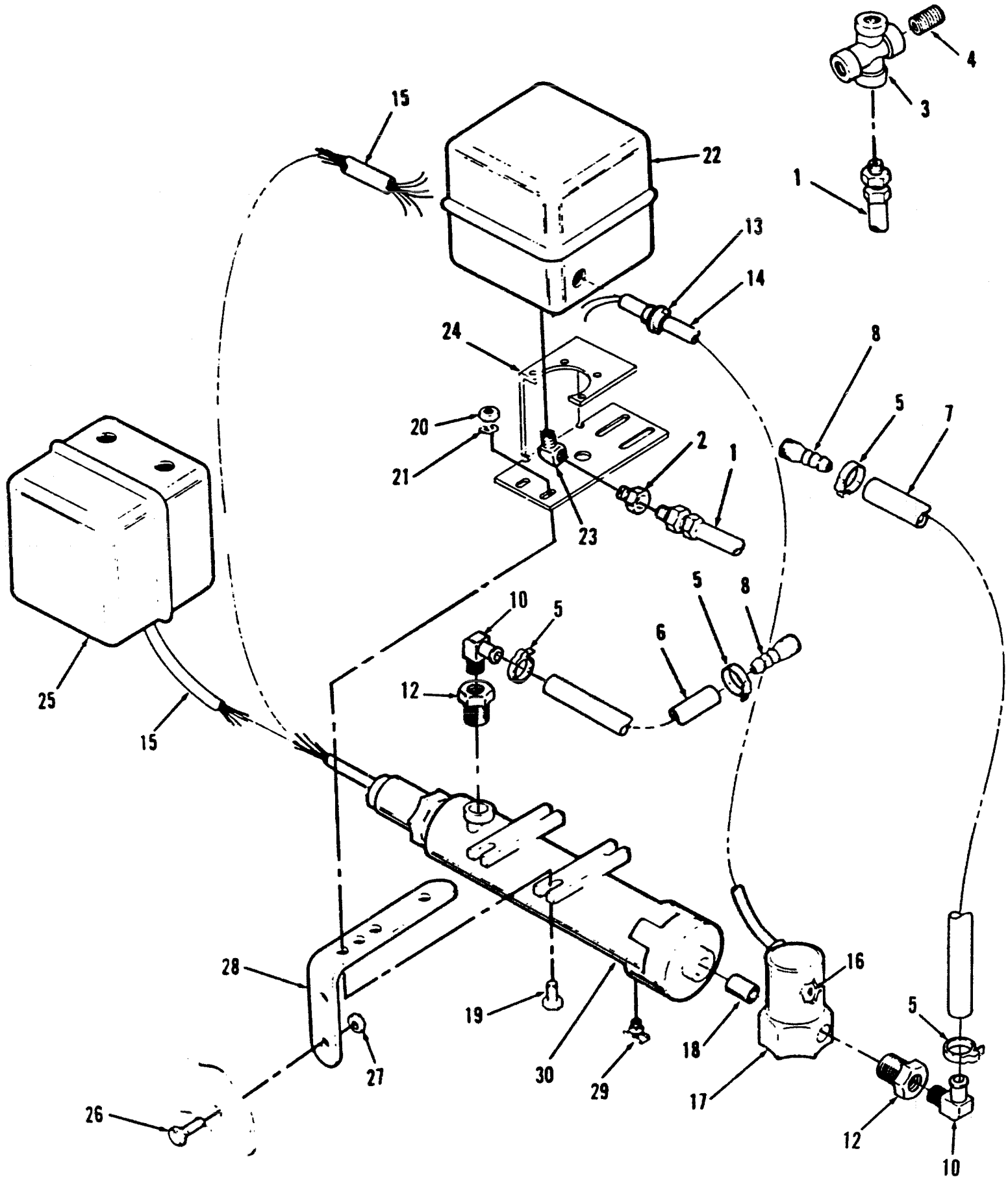
Heater - Engine Coolant (1978 thru 1982)



Heater - Engine Coolant (1978 thru 1982)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0225	1	Line, Fuel - Flexible	20	862-0001	4	Nut, Hex (1/4-20)
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	21	850-0040	4	Washer, Lock - Spring (1/4")
3	505-0763	1	Cross, Pipe (1/8 NPT)	22	309-0307	1	Switch, Pressure
4	505-0098	1	Nipple, Pipe - Close (1/8 NPT x 3/4"LG)	23	505-0099	1	Nipple, Pipe - Close (1/4 NPT x 7/8"LG)
5	503-0183	4	Clamp, Hose	24	333-0142	1	Bracket, Support with Pipe Tee
6	503-0832	1	Hose, Rubber (5/8"ID x 12"LG)	25			Contactor, Electrical
7	503-0843	1	Hose, Rubber (5/8"ID x 40"LG)		307-1460	1	230 VAC, 3 Pole
8	502-0613	2	Connector, Pipe to Hose (1/4 NPT x 5/8"ID Hose)		307-1164	1	460 VAC, 3 Pole
10	502-0942	2	Elbow, Pipe - 90° (3/8 NPT)	26	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
12	505-0455	2	Bushing, Reducer - Hex (1 NPT x 3/8 NPT)	27	870-0257	4	Nut, Self-locking - Hex Washer Head (5/16-18)
13	331-0027	6	Connector, Cable	28	130-1192	2	Bracket, Mounting - Heater
14	NFS		Cord, Electrical (2-#14, Type SO, 600 Volt)	29	504-0003	1	Cock, Drain (1/4 NPT)
15	NFS		Cable, Electrical (3-#12 or 4-#14, Type SO, 600 Volt)	30			Heater, Electrical - Engine Coolant
16			Terminals (Select as Required)		333-0158	1	2000 Watt, 115 VAC, 1 Phase
	332-0014	4	#10		333-0167	1	2000 Watt, 208 VAC, 1 Phase
	332-0807	4	#8		333-0148	1	2000 Watt, 208 VAC, 3 Phase
	323-0957	4	Wire Nut		333-0141	1	2000 Watt, 240 VAC, 1 Phase
17	309-0304	1	Switch, Thermostatic		333-0176	1	2000 Watt, 380 VAC, 1 Phase
18	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/4"LG)		333-0170	1	2000 Watt, 380 VAC, 3 Phase
19	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")		333-0147	1	2000 Watt, 480 VAC, 1 Phase
					333-0146	1	2000 Watt, 440 VAC, 3 Phase
					333-0172	1	2500 Watt, 440 VAC, 3 Phase

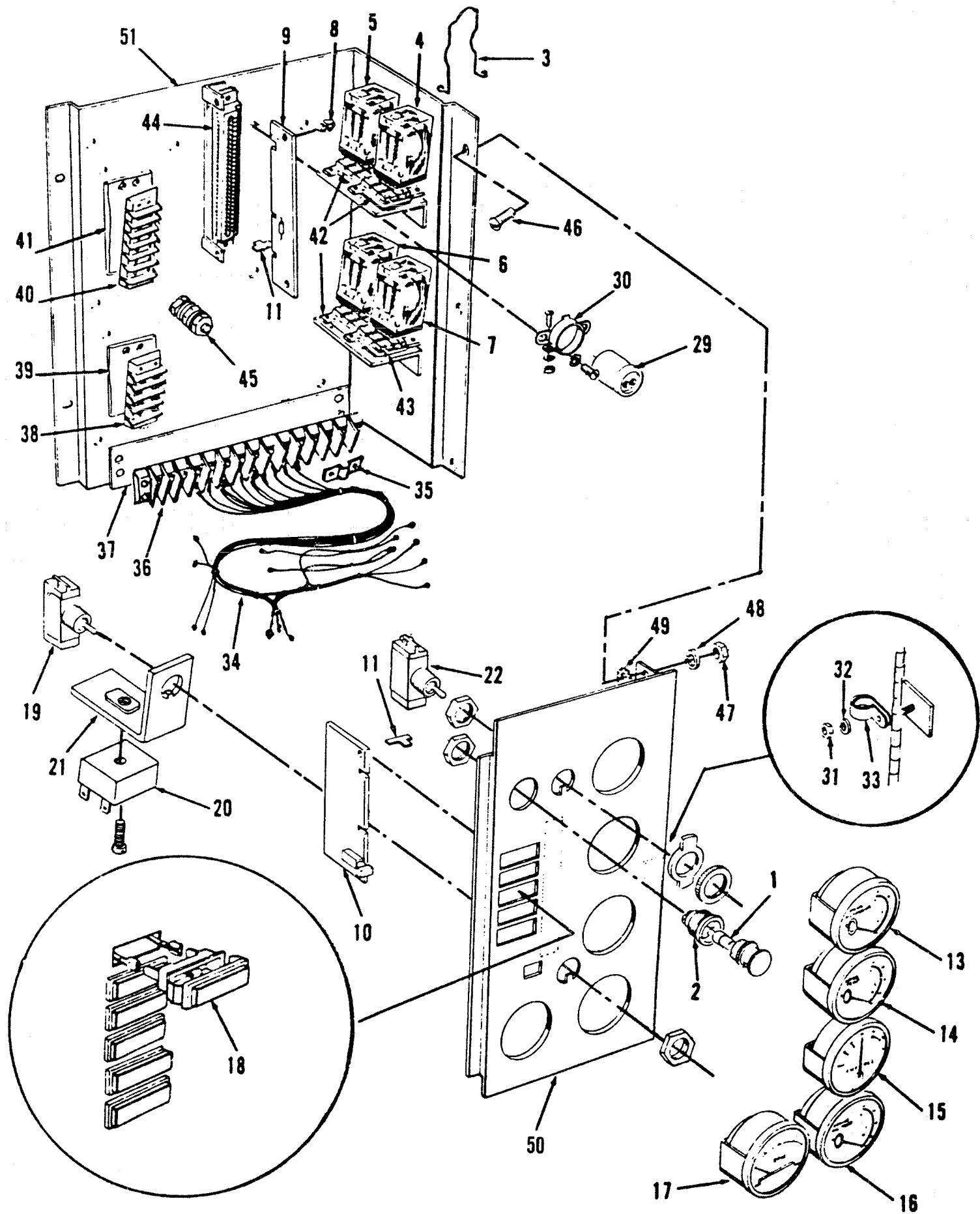
Heater - Engine Coolant (Begin 1983)



Heater - Engine Coolant (Begin 1983)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0225	1	Line, Fuel - Flexible	21	850-0040	4	Washer, Lock - Spring (1/4")
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	22	309-0307	1	Switch, Pressure
3	505-0763	1	Cross, Pipe (1/8 NPT)	23	502-0054	1	Elbow, Pipe - Street, 90°, Brass (1/4 NPT)
4	505-0098	1	Nipple, Pipe - Close (1/8 NPT x 3/4"LG)	24	333-0224	1	Bracket, Mounting - Pressure Switch
5	503-0183	4	Clamp, Hose		812-0079	4	Screw, Machine - Round Head (#8-32 x 1/2")
6	503-0832	1	Hose, Rubber (5/8"ID x 12"LG)		850-0025	4	Washer, Lock - Spring (#8)
7	503-0843	1	Hose, Rubber (5/8"ID x 40"LG)	25			Contactor, Electrical
8	502-0613	2	Connector, Pipe to Hose (1/4 NPT x 5/8"ID Hose)		307-1460	1	230 VAC, 3 Pole
10	502-0942	2	Elbow, Pipe - 90° (3/8 NPT)		307-1164	1	460 VAC, 3 Pole
12	505-0455	2	Bushing, Reducer - Hex (1 NPT x 3/8 NPT)	26	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
13	331-0027	6	Connector, Cable	27	870-0257	4	Nut, Self-locking - Hex Washer Head (5/16-18)
14	NFS		Cord, Electrical (2-#14, Type SO, 600 Volt)	28	130-1192	2	Bracket, Mounting - Heater
15	NFS		Cable, Electrical (3-#12 or 4-#14, Type SO, 600 Volt)	29	504-0003	1	Cock, Drain (1/4 NPT)
16			Terminals (Select as Required)	30			Heater, Electrical - Engine Coolant
	332-0014	4	#10		333-0158	1	2000 Watt, 115 VAC, 1 Phase
	332-0807	4	#8		333-0167	1	2000 Watt, 208 VAC, 1 Phase
	323-0957	4	Wire Nut		333-0148	1	2000 Watt, 208 VAC, 3 Phase
17	309-0304	1	Switch, Thermostatic		333-0141	1	2000 Watt, 240 VAC, 1 Phase
18	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/4"LG)		333-0176	1	2000 Watt, 380 VAC, 1 Phase
19	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")		333-0170	1	2000 Watt, 380 VAC, 3 Phase
20	862-0001	4	Nut, Hex (1/4-20)		333-0147	1	2000 Watt, 480 VAC, 1 Phase
					333-0146	1	2000 Watt, 440 VAC, 3 Phase
					333-0172	1	2500 Watt, 440 VAC, 3 Phase

Control - Engine (Spec A)

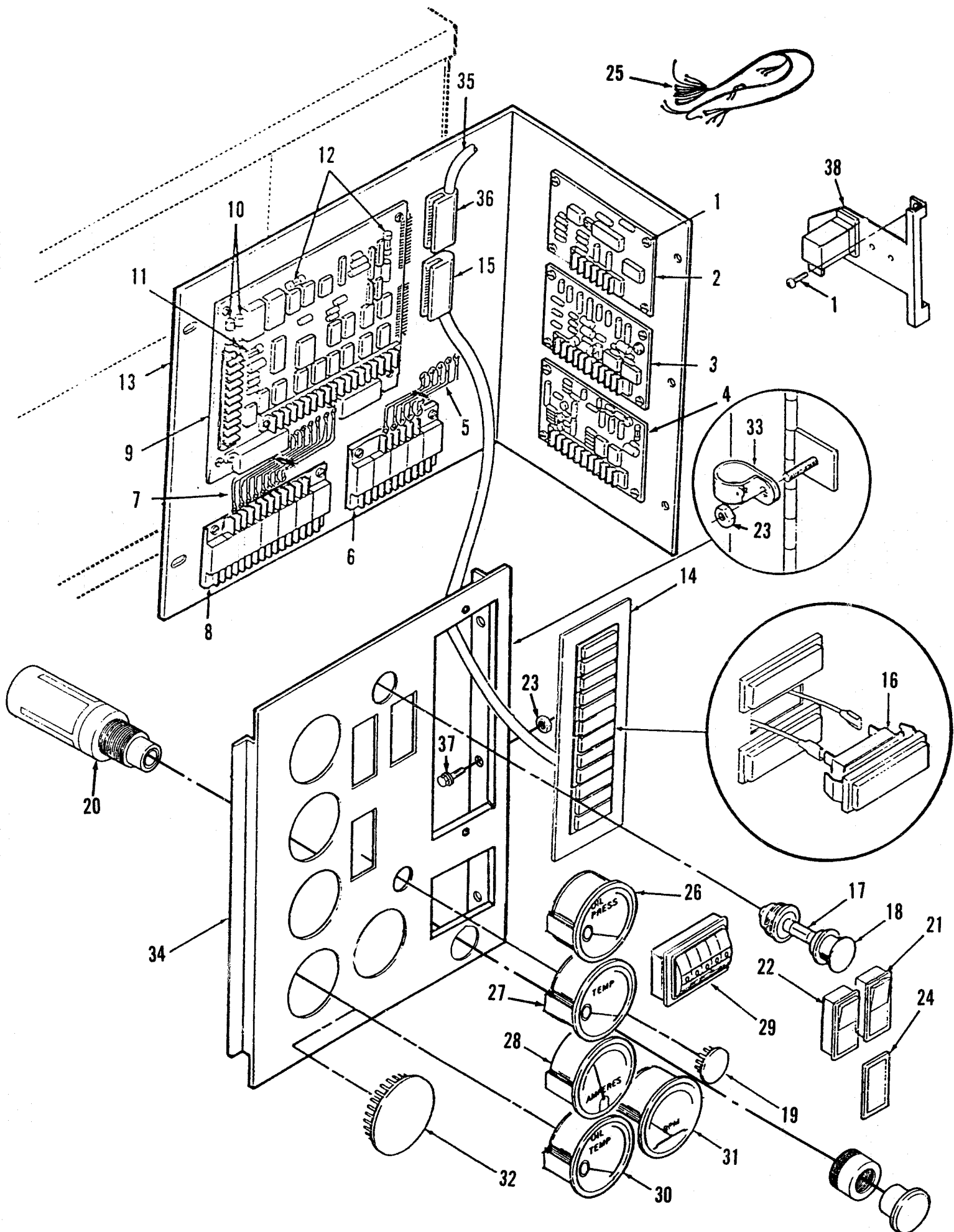


Control - Engine (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0004	1	Lamp, Incandescent (12 VDC)	31	870-0053	1	Nut, Hex (#10-32)
2	322-0149	1	Light - Panel	32	850-0030	1	Washer, Lock - Spring (#10)
3	307-1157	4	Spring, Holddown - Relay	33	332-0051	1	Clip - Cable
4	307-1058	1	Relay (Ignition)	34			Harness, Wiring - Engine
5	307-1058	1	Relay (Start Disconnect)				Control (Selection Required)
6	307-1058	1	Relay (Run Alarm)				Consult your Onan Parts
7	307-1061	1	Relay (Starter Protection)				Distributor)
8	518-0374	4	Fastener, Snap-In	35	332-1043	1	Jumper, Terminal
9			Cranker, Control (12 VDC)	36			Block, Terminal
	300-0733	1	Standard		332-1005	1	20 Place
	300-0714	1	Cycle		332-0795	1	16 Place
10			Monitor, Engine Control	37			Strip, Marker
			(12 VDC)		332-1559	1	20 Place
	300-0679	1	Standard (1 Fault Light)		332-1271	1	16 Place
	300-0730	1	Penn State (1 Fault Light)	38	332-0537	1	Block, Terminal - 4 Place
	300-0681	1	Standard (5 Fault Light)	39	332-1239	1	Strip, Marker - 4 Place
11	332-1276	2	Plug, Keying	40	332-0699	1	Block, Terminal - 6 Place
13	193-0243	1	Gauge, Pressure - Oil (12 VDC)	41	332-1240	1	Strip, Marker - 6 Place
14	193-0245	1	Gauge, Temperature - Water	42	323-0765	3	Socket, Relay - 11 Place
			(12 VDC)				(W/O Terminals)
15	302-1362	1	Ammeter		332-1280	11	Terminal
16	193-0248	1	Gauge, Temperature - Oil	43	323-0764	1	Socket, Relay - 8 Place
			(12 VDC)				(W/O Terminals)
17	302-0749	1	Tachometer		332-1280	8	Terminal
18			Light, Indicator - 14 VDC	44	332-1271	1	Housing, Terminal - PC Board
	322-0107	1	Red - OVERCRANK				(W/O Terminals)
	322-0108	1	Red - LO OIL PRESS		332-1269	22	Terminal
	322-0109	1	Red - HI ENG TEMP	45			Terminal Assembly, Ground
	322-0110	1	Red - LO ENG TEMP				(Includes Parts Marked *)
	322-0111	1	Red - OVERSPEED		871-0010	3	*Nut, Hex - Brass (#10-32)
	322-0128	1	Red - FAULT		854-0010	2	*Washer, Lock - IT (#10)
	322-0283	1	Red - SWITCH OFF		856-0003	1	*Washer, Lock - EIT (#10)
	322-0136	1	Red - (Blank, No Legend)		850-0030	1	*Washer, Lock - Spring (#10)
19			Switch, Toggle - Selector		526-0049	2	*Washer, Flat - Brass
	308-0138	1	Standard Sets				(13/64"ID x 7/32"OD x
	308-0327	1	Penn State Sets				1/32"THK)
20	333-0194-01	1	Flasher (12 VDC)		815-0203	1	*Screw, Machine - Round Head,
	813-0105	1	Screw, Machine - Round Head				Brass (#10-32 x 7/8")
			(#10-32 x 1")	46	815-0026	5	Screw, Machine - Truss Head
21	301-6053	1	Bracket, Mounting - Flasher				(#10-32 x 3/8")
22	308-0002	1	Switch, Toggle (SPST)	47	870-0053	1	Nut, Hex (#10-32)
29	356-0072	1	Capacitor, Fixed, Electrolytic	48	850-0030	1	Washer, Lock - Spring (#10)
			(4000MFD, 30VDC)	49	856-0003	1	Washer, Lock - ET (#10)
	812-0061	1	Screw, Machine - Round Head	50			Panel, Control - Engine
			(#6-32 x 3/8")				(Selection Required, Consult
	853-0003	1	Washer, Lock - ET (#6)				Your Onan Parts Distributor)
	860-0006	1	Nut, Hex (#6-32)	51	301-3253	1	Bracket, Mounting - Engine
30	356-0070	1	Clamp, Mounting - Capacitor				Control
	812-0063	2	Screw, Machine - Round Head				
			(#6-32 x 1/2")				
	853-0003	2	Washer, Lock - ET (#6)				

* - Parts Included in Ground Terminal Assembly.

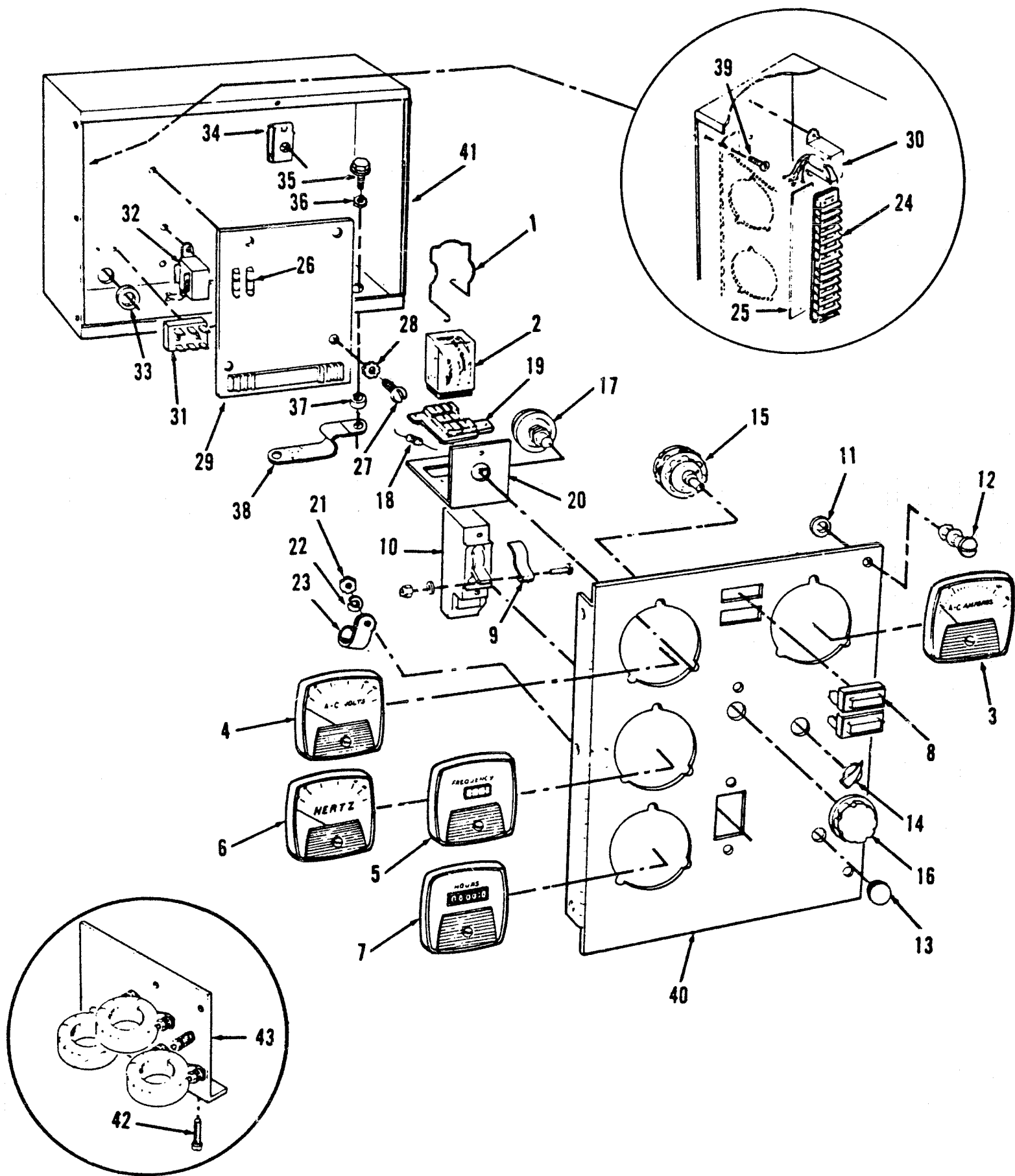
Control - Engine (Spec B)



Control - Engine (Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	16	322-0369-01	1	Lamp, Incandescent - 1/3 Watt 12 VDC
2	300-2897	1	Board - Time Delay, Start/Stop (A15)	17	322-0004	1	Lamp, Incandescent (DS11) 12 VDC
3			Board - Magnetic Sensor, Start Disconnect/Overspeed Sensor (See Separate Page for Switch, Sensor and Harness) (A16)	18	322-0361	1	Holder, Lamp
	300-2901	1	Standard	19	517-0131	1	Plug, Button
	300-2902	1	Precision	20	308-0853	1	Switch, Pushbutton - Emergency Stop (S14)
4	300-2905	1	Board - Over/Under Voltage Sensor (A17)	21	308-0892	1	Switch, Rocker - Restart/ Panel Light (S11)
5	338-1836	1	Harness - Alarm Relay (12 Light Control) (A14 to A11)	22	308-0784	1	Switch, Push - Run/Stop/ Remote (S12)
6	300-2855	1	Board - Alarm Relay (12 Light Control) (A14)	23	870-0131	4	Nut, Hex - With ET (#10-32)
7	338-1835	1	Harness - Alarm Relay (7 and 12 Light Controls) (A13 to A11)	24	301-6257	1	Cover - Switch Mounting Hole
8	300-2862	1	Board - Alarm Relay (7 and 12 Light Controls) (A13)	25	338-1904	1	Harness
9			Board - Engine Monitor (A11) (Includes Fuses)		338-1940	1	Time Delay - Start/Stop (A15 to A11)
	300-2809	1	7 Light Control	26	193-0352	1	Gauge, Pressure - Oil (M11)
	300-2811	1	12 Light Control	27	193-0351	1	Gauge, Temperature - Water (M12)
10	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	28	302-1641	1	Voltmeter-DC (M13)
11	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	29	302-0885	1	Meter, Time Totalizing (M14)
12	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)		815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
13	301-8851	1	Bracket, Mounting		870-0183	2	Nut, Hex - Self-locking With ET (#6-32)
	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	30	193-0330	1	Gauge, Temperature - Oil (M15)
14			Module, Indicator - Fault (A12) (Includes Connector)	31	302-1873-01	1	Tachometer (M16)
	322-0359-01	1	7 Light Control	32	517-0221	1	Plug, Button
	322-0360-01	1	12 Light Control	33	332-0052	1	Clamp, Loop
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")	34	301-9055-02	1	Door, Control
	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)		301-9055-01	1	Doors With Three Round Gauge Holes
15	323-1310	1	Housing, Connector - 13 Pin (J3)	35	338-2277	1	Doors With Five Round Gauge Holes
	323-1302	13	Contact, Pin	36	323-1308	1	Harness, Wiring - DC (Includes Connector)
					323-1302	12	Housing, Connector - 12 Pin (J4)
				37	821-0004	3	Contact, Pin
				38	-		Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
							Relay, Run (See Separate Page for Components)

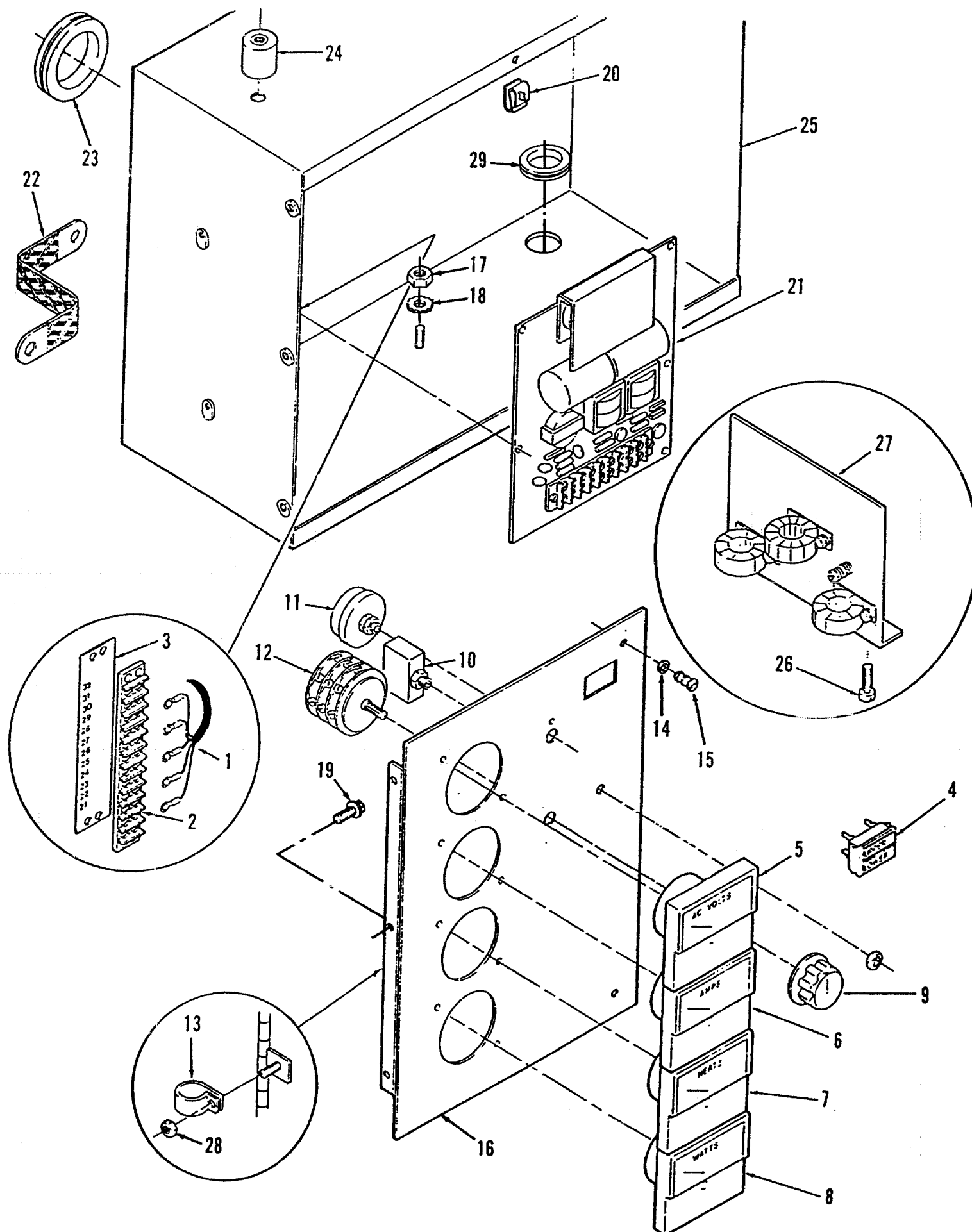
Control-Generator (Spec A)



Control-Generator (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holddown - Relay	20	301-3244	1	Bracket, Mounting - Relay
2	307-1061	1	Relay	21	870-0053	1	Nut, Hex (#10-32)
3			Ammeter	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0406	1	0-50 Amp	23	332-0051	1	Clip - Cable
	302-0408	1	0-75 Amp	24			Block, Terminal
	302-0410	1	0-100 Amp		332-0607	1	12 Place
	302-0411	1	0-200 Amp		332-0795	1	16 Place
	302-0412	1	0-250 Amp		812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
	302-0413	1	0-300 Amp				Washer, Lock - ET (#6)
	302-0605	1	0-400 Amp		853-0003	2	Washer, Lock - Spring (#6)
	302-0719	1	0-75, 0-150 Amp		850-0020	2	Strip, Marker
	302-0720	1	0-100, 0-200 Amp	25			16 Place
	302-0721	1	0-150, 0-300 Amp		332-1242	1	12 Place
	302-0722	1	0-200, 0-400 Amp		332-1248	1	Fuse, Cartridge (1/4 Amp)
	302-0723	1	0-250, 0-500 Amp	26	321-0204	2	Screw, Machine - Round Head (#6-32 x 5/8")
	302-0724	1	0-375, 0-750 Amp	27	812-0065	4	Washer, Lock - ET (#6)
4			Voltmeter	28	853-0003	4	Regulator, Voltage
	302-0421	1	0-300 VAC	29			Used with 120 VAC Input Signal
	302-0422	1	0-600 VAC		332-1268	1	Used with 240 VAC Input Signal
	302-0612	1	0-500 VAC		332-1956	1	Transformer, Voltage
	302-0779	1	0-750 VAC				120 VAC
	302-0718	1	0-300, 0-600 VAC				240 VAC
5			Meter, Frequency - Reed Type	30			Screw, Machine - Round Head (#6-32 x 3/8")
	302-0213	1	115 VAC, 60 Hz		315-0342	1	Washer, Lock - ET (#6)
	302-0221	1	230 VAC, 60 Hz		315-0431	1	Rectifier, Bridge
	302-0234	1	115 VAC, 50 Hz		812-0061	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
	302-0256	1	230 VAC, 50 Hz				Washer, Lock - Spring (#6)
6			Meter, Frequency - Pointer Type		853-0003	2	Reactor
	302-0809	1	120 VAC, 60 Hz	31	305-0675	1	Screw, Machine - Round Head (#6-32 x 3/8")
	302-0810	1	208 VAC, 60 Hz		812-0070	2	Washer, Lock - ET (#6)
	302-0811	1	240 VAC, 60 Hz				Grommet
7			Meter, Time Totalizing		850-0020	2	Receptacle, Turnbutton Fastener
	302-0466	1	60 Hz	32	315-0384	1	Screw, Cap - Hex Head (5/16-18 x 3/8")
	302-0469	1	50 Hz		812-0061	2	Washer, Lock - Spring (5/16")
8			Light, Indicator - 125 VAC				Dampener, Vibration
	322-0130	1	Red - Upper Scale		853-0003	2	Strap, Electrical - Ground
	322-0131	1	Red - Lower Scale	33	508-0001	1	Screw, Machine - Truss Head (#10-32 x 3/8")
	322-0178	1	Red - Blank (No Legend)	34	406-0332	2	Panel, Control - Generator (Selection Required, Consult Your Onan Parts Distributor)
9	320-0307	1	Lock, Handle - Circuit	35	800-0045	4	Box, Control
	815-0203	1	Screw, Machine - Round Head (#10-32 x 7/8")				Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
	854-0010	1	Washer, Lock - ET (#10)	36	850-0045	4	Transformer, Current (See Separate Page for Components)
	871-0010	1	Nut, Hex (#10-32)	37	402-0078	4	
10	320-0431	1	Breaker, Circuit	38	337-0049	1	
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")	39	815-0026	3	
	850-0020	2	Washer, Lock - Spring (#6)	40			
11	406-0334	2	Clip, Retaining - Turnbutton Fastener	41	301-3158	1	
12	406-0333	2	Stud, Turnbutton Fastener	42	821-0010	2	
13	517-0131	1	Plug, Plastic	43			
14	303-0076	1	Knob, Pointer				
15	308-0284	1	Switch, Selector				
16	303-0032	1	Knob				
17	303-0170	1	Rheostat				
18	350-0556	1	Resistor, Fixed, Composition				
19	323-0765	1	Socket, Relay - 11 Place (W/O Terminals)				
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")				
	853-0003	2	Washer, Lock - ET (#6)				
	860-0005	1	Nut, Hex (#6-32)				
	332-1280	11	Terminal				

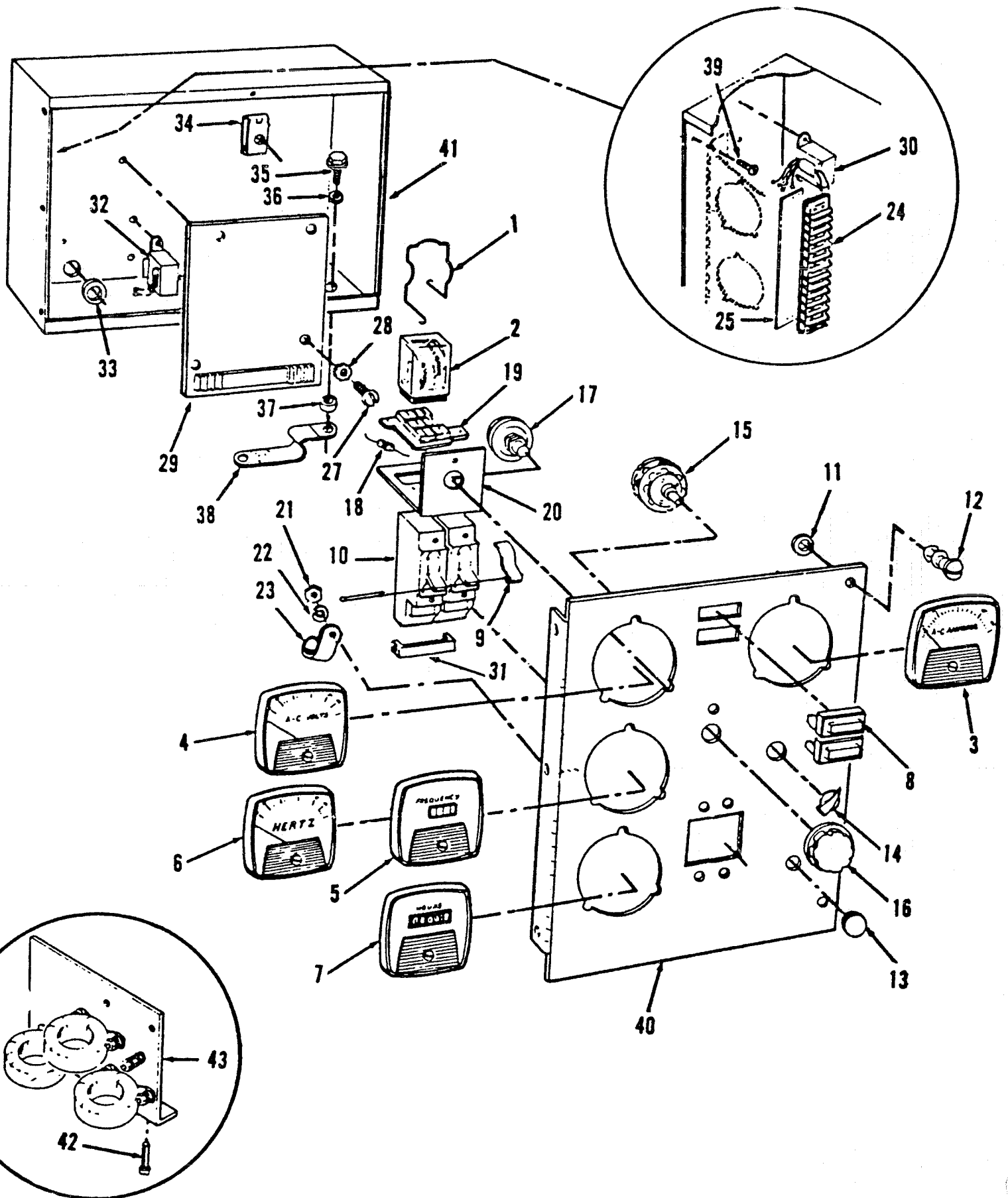
Control - Generator (Spec B)



Control - Generator (Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2278	1	Harness, Wiring - Includes Terminal Block (Controls With Meters) (Harness Not Used on Controls Without Meters)	12	308-0882	1	Switch, Rotary (S21)
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	13	332-0052	1	Clamp, Loop
2	332-0607	1	Block, Terminal (TB21)	14	406-0334	2	Clip - Fastener
3	332-2723	1	Strip, Marker	15	406-0333	2	Stud - Fastener
4	322-0301	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)	16			Door, Control
5			Voltmeter (M21)		301-9054-03	1	Without Meters
	302-1148	1	0-300/600		301-9054-02	1	Without Wattmeter
	302-1753	1	0-750		301-9054-01	1	With Wattmeter
6			Ammeter (M22)	17	871-0015	1	Nut, Hex - Brass (1/4-20)
	302-1473	1	0-50/100	18	853-0013	1	Washer, Locking - With ET (1/4")
	302-1147	1	0-75/150				
	302-1683	1	0-100/200	19	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
	302-1684	1	0-150/300	20	406-0332	2	Receptacle - Fastener
	302-1685	1	0-200/400	21	300-2880	1	Regulator, Voltage (VR21)
	302-1724	1	0-250/500		815-0544	6	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")
	302-1725	1	0-375/750	22	337-0049	1	Strap, Ground
	302-1726	1	0-400/800		800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
	302-1727	1	0-500/1000		856-0008	1	Washer, Lock - EIT (5/16")
	302-1728	1	0-600/1200		862-0015	1	Nut, Hex (5/16-18)
	302-1729	1	0-750/1500	23	508-0051	1	Grommet
	302-1798	1	0-1000/2000	24	402-0527	2	Mount, Vibration
	302-1799	1	0-1500/3000		800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
	302-1800	1	0-2000/4000		850-0045	4	Washer, Lock - Spring (5/16")
7	302-1720	1	Meter, Frequency (M23)	25	301-8065	1	Box, Control
8	-		Wattmeter (M24) (See Separate Page for Components)	26	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
9	303-0032	1	Knob	27	-		Transformer, Current (See Separate Page for Components)
10	320-1121	1	Breaker, Circuit (CB21)	28	870-0131	1	Nut, Hex - With ET (#10-32)
11	303-0261	1	Rheostat (R21)	29	508-0001	1	Grommet

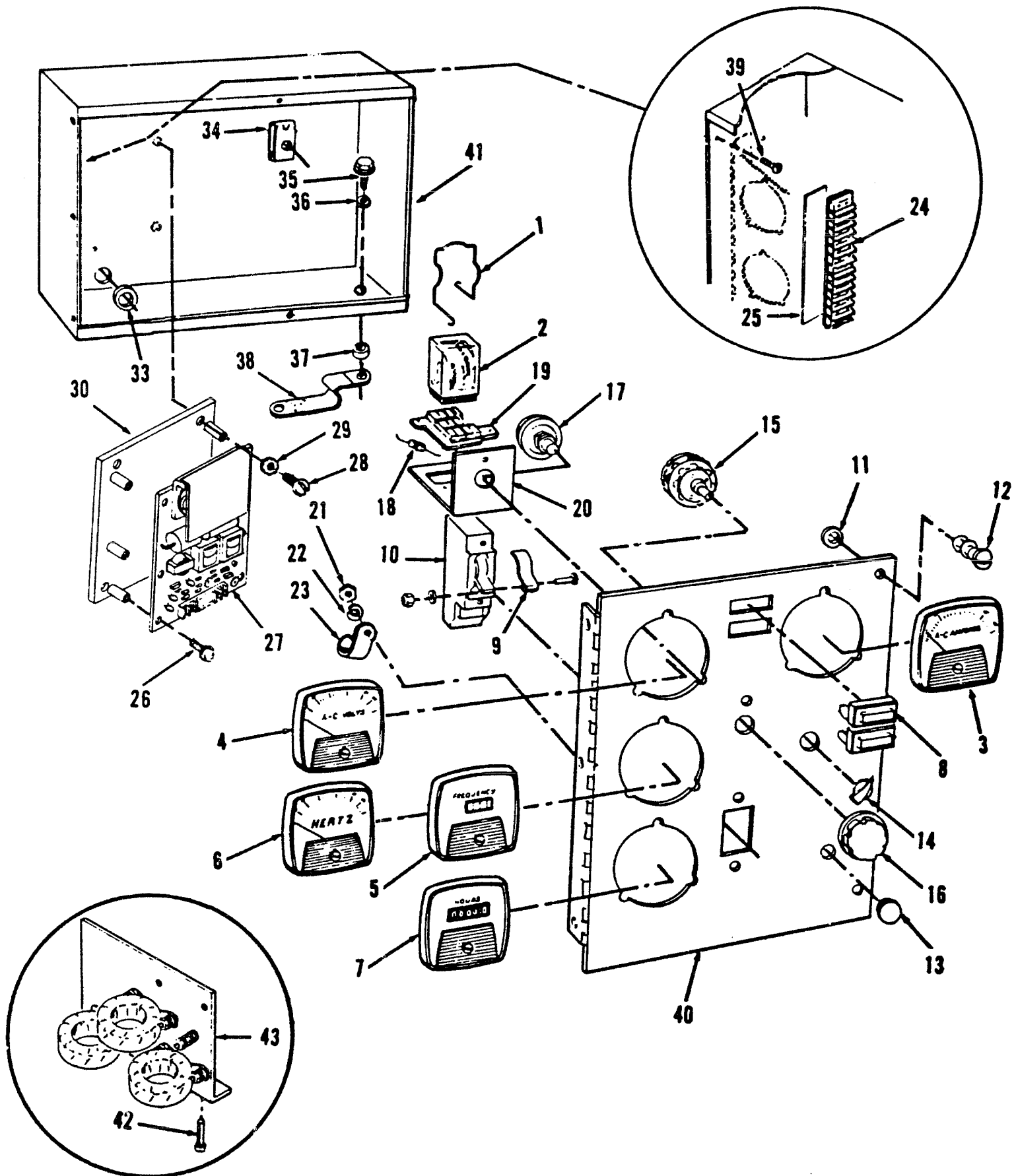
Control - Generator
(Switching Regulator)
(Spec A)



**Control - Generator
(Switching Regulator)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holddown - Relay	20	301-3244	1	Bracket, Mounting - Relay
2	307-1061	1	Relay	21	870-0053	1	Nut, Hex (#10-32)
3			Ammeter	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0406	1	0-50 Amp	23	332-0051	1	Clip - Cable
	302-0408	1	0-75 Amp	24			Block, Terminal
	302-0410	1	0-100 Amp		332-0607	1	12 Place
	302-0411	1	0-200 Amp		332-0795	1	16 Place
	302-0412	1	0-250 Amp		812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
	302-0413	1	0-300 Amp		853-0003	2	Washer, Lock - ET (#6)
	302-0605	1	0-400 Amp		850-0020	2	Washer, Lock - Spring (#6)
	302-0719	1	0-75, 0-150 Amp	25			Strip, Marker
	302-0720	1	0-100, 0-200 Amp		332-1242	1	16 Place
	302-0721	1	0-150, 0-300 Amp		332-1248	1	12 Place
	302-0722	1	0-200, 0-400 Amp	27	812-0065	4	Screw, Machine - Round Head (#6-32 x 5/8")
	302-0723	1	0-250, 0-500 Amp		853-0003	4	Washer, Lock - Spring (#6)
	302-0724	1	0-375, 0-750 Amp	29			Regulator, Voltage - Switching
4			Voltmeter		300-1928	1	Semi-Frequency Sensitive
	302-0421	1	0-300 VAC				Type
	302-0422	1	0-600 VAC		300-1929	1	Voltage Sensitive Type
	302-0612	1	0-500 VAC		300-1930	1	Frequency Sensitive Type
	302-0779	1	0-750 VAC	30	315-0431	1	Transformer, Voltage
5			Meter, Frequency - Reed Type		812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
	302-0213	1	115 VAC, 60 Hz		853-0003	2	Washer, Lock - ET (#6)
	302-0221	1	230 VAC, 60 Hz	31	320-0202	1	Tie Bar - Circuit Breaker
	302-0234	1	115 VAC, 50 Hz	32	315-0384	2	Reactor
	302-0256	1	230 VAC, 50 Hz		812-0061	4	Screw, Machine - Round Head (#6-32 x 3/8")
6			Meter, Frequency - Pointer		853-0003	4	Washer, Lock - ET (#6)
			Type	33	508-0001	1	Grommet
	302-0809	1	120 VAC	34	406-0332	2	Receptacle, Turnbutton
	302-0810	1	208 VAC				Fastener
	302-0811	1	240 VAC	35	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
7			Meter, Time Totalizing	36	850-0045	4	Washer, Lock - Spring (5/16")
	302-0466	1	60 Hz	37	402-0078	4	Dampener, Vibration
	302-0469	1	50 Hz	38	337-0049	1	Strap, Ground
8			Light, Indicator - 125 VAC	39	815-0026	3	Screw, Machine - Truss Head (#10-32 x 3/8")
	322-0130	1	Red - Upper Scale	40			Panel, Control - Generator
	322-0131	1	Red - Lower Scale				(Selection Required, Consult
	322-0178	1	Red - Blank (No Legend)	41	301-3158	1	Your Onan Parts Distributor)
9	320-0307	1	Lock, Handle - Circuit Breaker	42	821-0010	2	Box, Control
10	320-0455	2	Breaker, Circuit				Screw, Self-locking - Hex
	812-0061	4	Screw, Machine - Round Head (#6-32 x 3/8")	43			Washer Head (1/4-20 x 1/2")
	850-0020	4	Washer, Lock - Spring (#6)				Transformer, Current (See
11	406-0334	2	Washer, Retaining - Turnbutton				Separate Page for Components)
			Fastener				
12	406-0333	2	Stud, Turnbutton Fastener				
13	517-0131	1	Plug, Plastic				
	303-0076	1	Knob, Pointer				
15	308-0284	1	Switch, Selector				
16	303-0032	1	Knob				
17	303-0170	1	Rheostat				
18	350-0556	1	Resistor, Fixed Composition				
19	323-0765	1	Socket, Relay - 11 Place (W/O Terminals)				
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")				
	853-0003	2	Washer, Lock - ET (#6)				
	332-1280	11	Terminal				

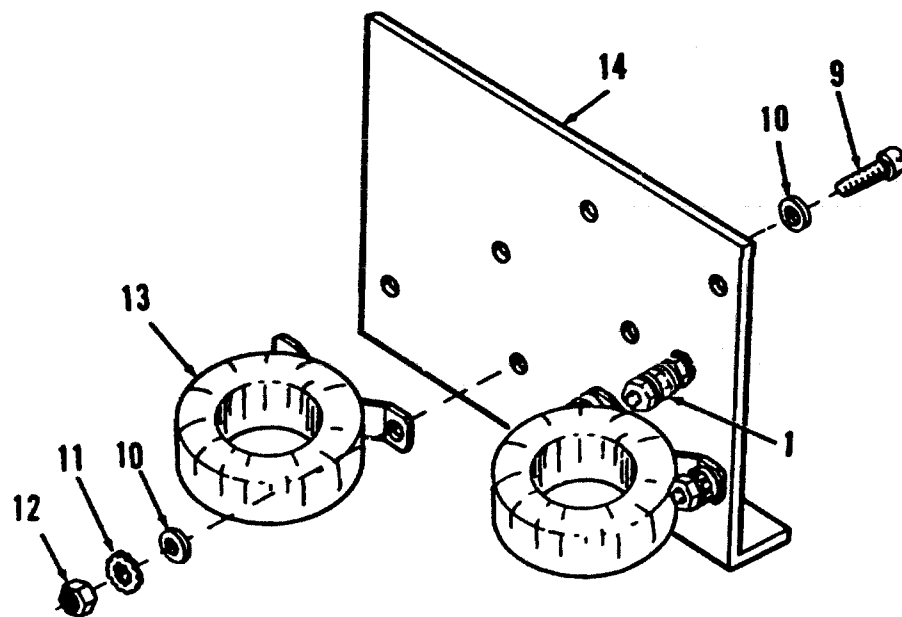
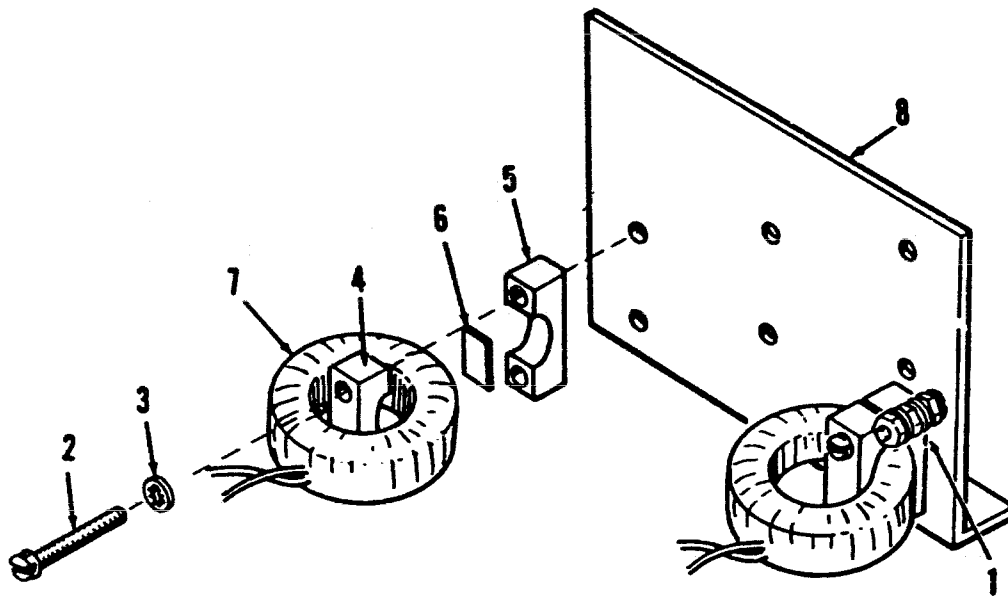
Control - Generator
(Torque Matched Regulator)
(Spec A)



**Control - Generator
(Torque Matched Regulator)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holddown - Relay	15	308-0284	1	Switch, Selector
2	307-1061	1	Relay	16	303-0032	1	Knob
3			Ammeter	17	303-0261	1	Rheostat
	302-0406	1	0-50 Amp	18	350-0556	1	Resistor, Fixed Composition
	302-0408	1	0-75 Amp	19	323-0765	1	Socket, Relay - 11 Place
	302-0410	1	0-100 Amp				(W/O Terminals)
	302-0411	1	0-200 Amp		812-0061	2	Screw, Machine - Round Head
	302-0412	1	0-250 Amp				(#6-32 x 3/8")
	302-0413	1	0-300 Amp		853-0003	2	Washer, Lock - ET (#6)
	302-0605	1	0-400 Amp		860-0005	1	Nut, Hex (#6-32)
	302-0719	1	0-75, 0-150 Amp		332-1280	11	Terminal
	302-0720	1	0-100, 0-200 Amp	20	301-3244	1	Bracket, Mounting - Relay
	302-0721	1	0-150, 0-300 Amp	21	870-0053	1	Nut, Hex (#10-32)
	302-0722	1	0-200, 0-400 Amp	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0723	1	0-250, 0-500 Amp	23	332-0051	1	Clip - Cable
	302-0724	1	0-375, 0-750 Amp	24			Block, Terminal
4			Voltmeter		332-0607	1	12 Place
	302-0421	1	0-300 VAC		332-0795	1	16 Place
	302-0422	1	0-600 VAC		812-0066	2	Screw, Machine - Round Head
	302-0612	1	0-500 VAC				(#6-32 x 3/4")
	302-0779	1	0-750 VAC		850-0020	2	Washer, Lock - Spring (#6)
	302-0718	1	0-300, 0-600 VAC		853-0003	2	Washer, Lock - IT (#6)
5			Meter, Frequency - Reed Type	25			Strip, Marker
	302-0213	1	115 VAC, 60 Hz		332-1248	1	12 Place
	302-0221	1	230 VAC, 60 Hz		332-1242	1	16 Place
	302-0234	1	115 VAC, 50 Hz	26	815-0544	6	Screw, Machine - Round Head
	302-0256	1	230 VAC, 50 Hz				with IT Lockwasher
6			Meter, Frequency - Pointer				(#6-32 x 1/2")
			Type	27	300-2880	1	Regulator, Voltage - Torque
	302-0809	1	120 VAC, 60 Hz				Matched
	302-0810	1	208 VAC, 60 Hz	28	812-0065	4	Screw, Machine - Round Head
	302-0811	1	240 VAC, 60 Hz				(#6-32 x 5/8")
7			Meter, Time Totalizing	29	853-0003	4	Washer, Lock - ET (#6)
	302-0466	1	60 Hz	30	301-9315	1	Bracket, Mounting - Voltage
	302-0469	1	50 Hz				Regulator
8			Light, Indicator - 125 VAC	33	508-0001	1	Grommet
	322-0130	1	Red - Upper Scale	34	406-0332	2	Receptacle, Turnbutton Fastener
	322-0131	1	Red - Lower Scale	35	800-0045	4	Screw, Cap - Hex Head
	322-0178	1	Red - Blank (No Legend)				(5/16-18 x 3/8")
9	320-0307	1	Lock, Handle - Circuit Breaker	36	850-0045	4	Washer, Lock - Spring (5/16")
	815-0203	1	Screw, Machine - Round Head	37	402-0078	4	Dampener, Vibration
			(#10-32 x 7/8")	38	337-0049	1	Strap, Electrical - Ground
	854-0010	1	Washer, Lock - ET (#10)	39	815-0026	3	Screw, Machine - Truss Head
	871-0010	1	Nut, Hex (#10-32)				(#10-32 x 3/8")
10	320-0431	1	Breaker, Circuit	40			Panel, Control - Generator
	812-0061	2	Screw, Machine - Round Head				(Selection Required, Consult
			(#6-32 x 3/8")				Your Onan Parts Distributor)
	850-0020	4	Washer, Lock - Spring (#6)	41	301-3158	1	Box, Control
11	406-0334	2	Washer, Retaining - Turnbutton	42	821-0010	2	Screw, Self-locking - Hex
			Fastener				Washer Head (1/4-20 x 1/2")
12	406-0333	2	Stud, Turnbutton Fastener	43			Transformer, Current (See
13	517-0131	1	Plug, Plastic				Separate Page for Components)
14	303-0076	1	Knob, Pointer				

Current Transformer



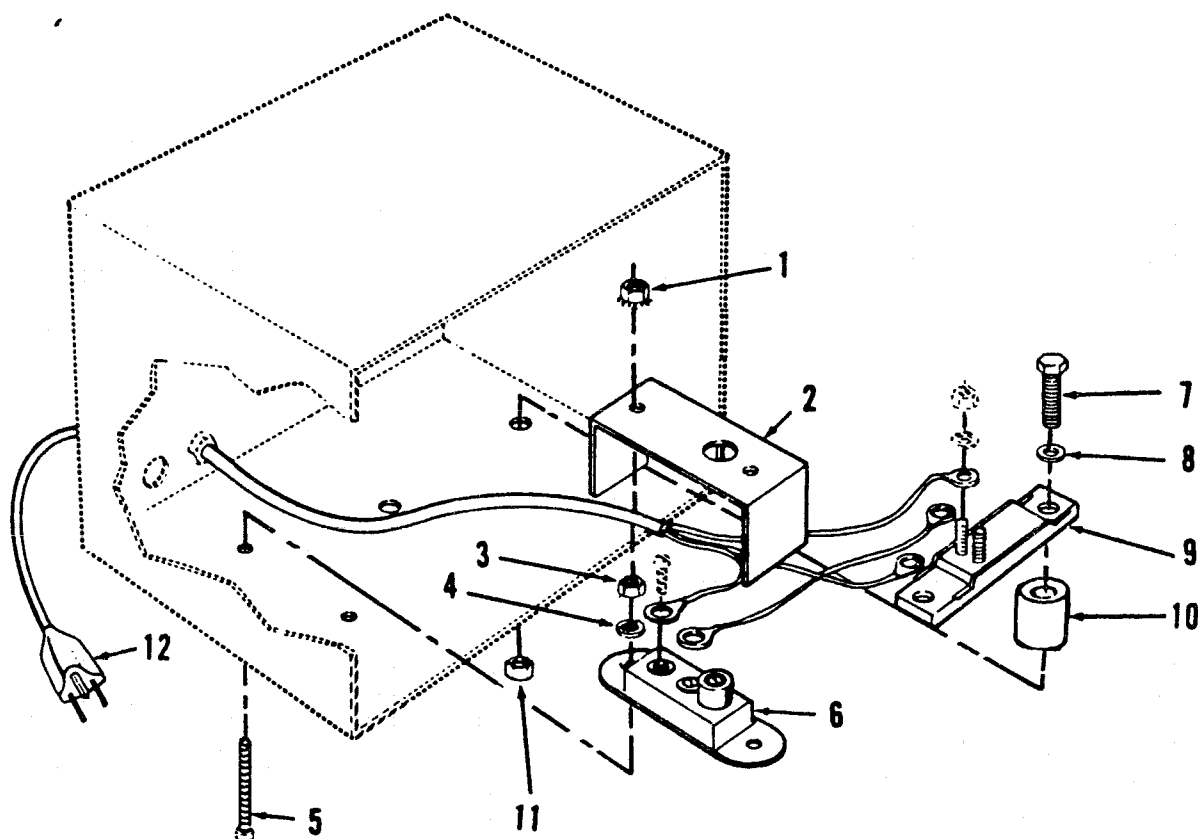
Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Terminal Assembly, Ground (Includes Indented Parts Listed Below)	10			Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
	871-0010	3	** Nut, Hex - Brass (#10-32)		526-0008	6	* Spec A
	854-0010	2	** Washer, Lock - IT (#10)		526-0008	12	# Spec B
	856-0003	1	** Washer, Lock - EIT (#10)	11	856-0003	6	**Washer, Lock - EIT (#10)
	850-0030	1	* Washer, Lock - Spring (#10)	12	870-0053	6	**Nut, Hex (#10-32)
	526-0049	2	** Washer, Flat - Brass (13/64"ID x 7/32"OD x 1/32"THK)	13			Transformer, Current
	815-0203	1	** Screw, Machine - Round Head, Brass (#10-32 x 7/8")		302-0952	3	* Ratio 75/5, 2 VA
2	813-0110	6	*Screw, Machine - Round Head (#10-32 x 2")		302-0864	3	* Ratio 150/5, 2 VA
3	854-0010	6	*Washer, Lock - IT (#10)		302-0865	3	* Ratio 200/5, 2 VA
4	302-0235	3	*Clamp, Upper		302-0866	3	* Ratio 250/5, 2 VA
5	302-0236	3	*Clamp, Lower		302-0608	3	* Ratio 400/5, 2 VA
6	302-0253	6	*Shim		302-0547	3	* Ratio 500/5, 2 VA
7			*Transformer, Current		302-0471	3	* Ratio 750/5, 2 VA
	302-0117	3	Ratio 50/5, 3 VA				Spec B
	302-1365	3	Ratio 75/5, 2 VA		302-1868-01	3	# Ratio 50/5
	302-0078	3	Ratio 100/5, 2 VA		302-1868-02	3	# Ratio 100/5
	302-0079	3	Ratio 150/5, 1 VA		302-1868-03	3	# Ratio 150/5, 1.5 VA
	302-0106	3	Ratio 200/5, 1 VA		302-1868-04	3	# Ratio 200/5, 2.0 VA
	302-0209	3	Ratio 250/5, 1 VA		302-1868-05	3	# Ratio 300/5, 2.5 VA
	302-0107	3	Ratio 300/5, 1 VA		302-1868-06	3	# Ratio 400/5, 4.0 VA
8	302-0729	1	*Bracket, Mounting - Transformer		302-1868-07	3	# Ratio 500/5, 6.0 VA
9			Screw, Machine - Round Head (#10-32 x 1/2")		302-1868-08	3	# Ratio 750/5, 7.5 VA
	813-0100	6	* Spec A		302-1868-09	3	# Ratio 800/5, 8.0 VA
	821-0005	6	# Spec B		302-1868-10	3	# Ratio 1000/5, 10.0 VA
					302-1868-11	3	# Ratio 1200/5, 12.0 VA
					302-1868-12	3	# Ratio 1500/5, 15.0 VA
				14	302-0764	1	*Bracket, Mounting - Transform

* - Parts Used During Spec A

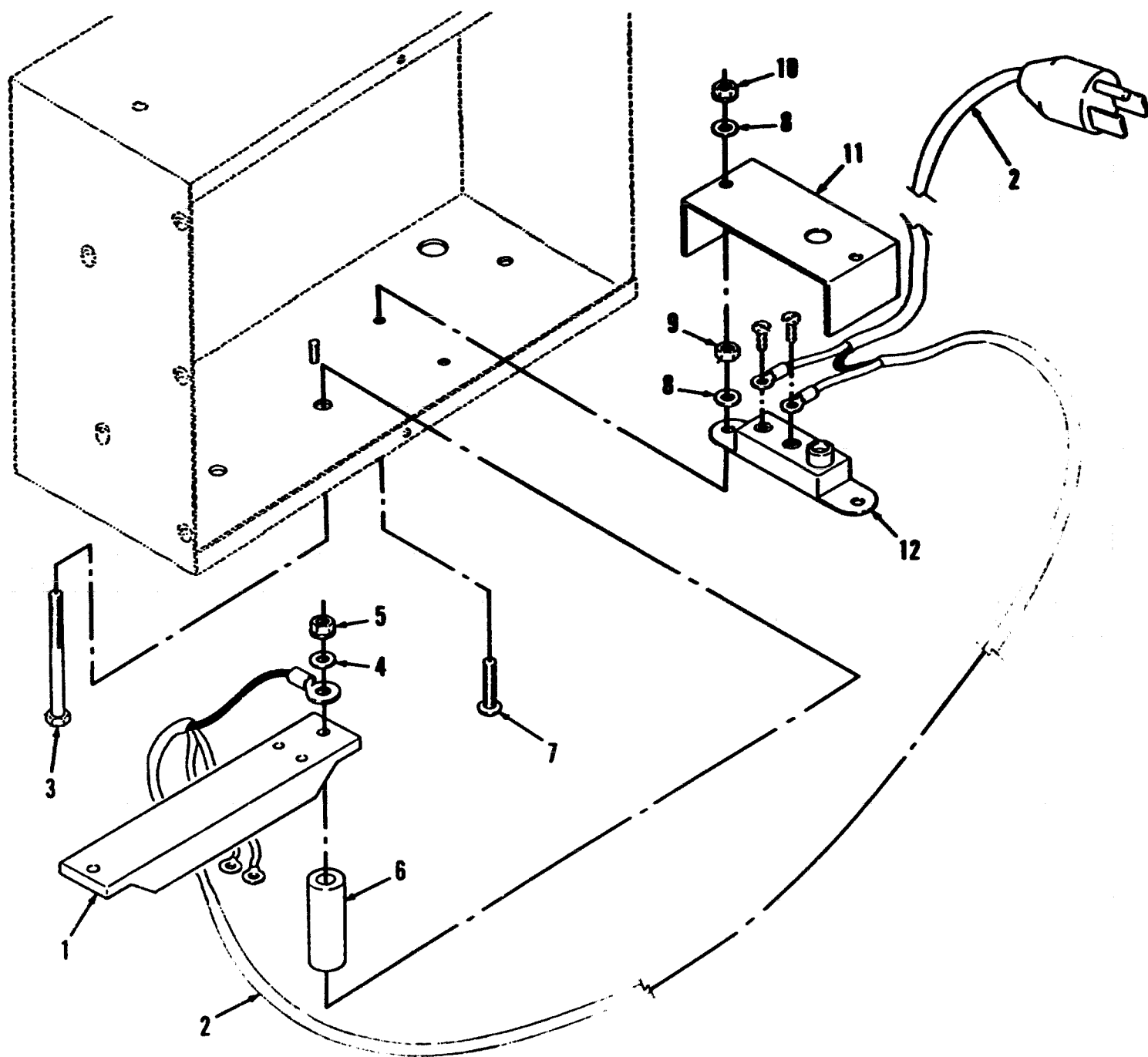
- Parts Used During Spec B

Heater-Control (Spec A)



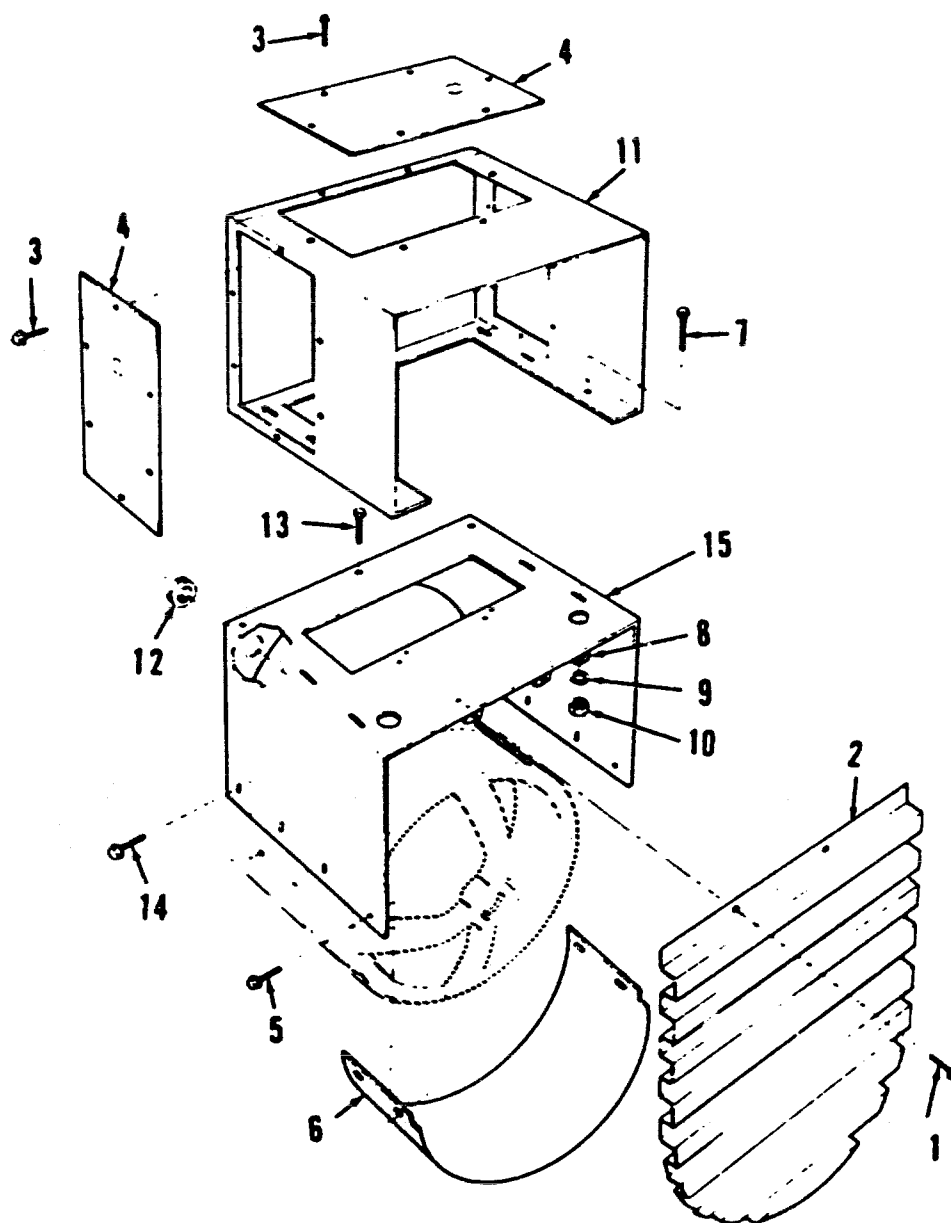
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex W/ET Washer (#6-32)	8	526-0113	2	Washer, Flat (5/16")
2	301-1886	1	Cover, Thermostat	9	333-0151	1	Heater, Electrical - 75 Watt, 120 VAC; 300 Watt, 240 VAC
3	860-0006	2	Nut, Hex (#6-32)	10	130-1107	2	Spacer, Sleeve
4	854-0006	2	Washer, Lock - IT (#6)	11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")	12	335-0161	1	Cable, Electrical
6	309-0128	1	Thermostat - Adjustable				
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")				

Heater - Control (Spec B)



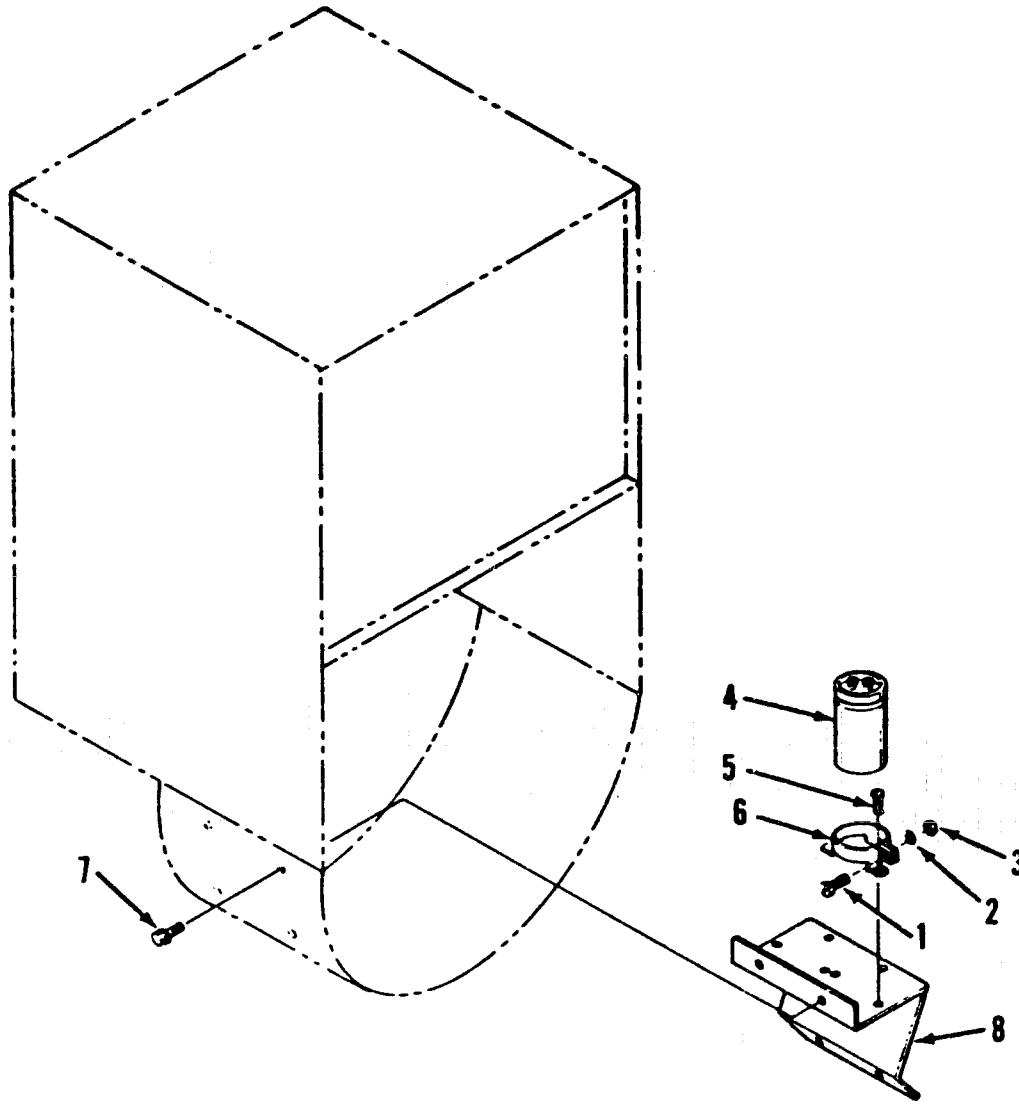
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0151	1	Heater (HR1)	6	130-1107	2	Spacer
2	335-0161	1	Cable	7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
3	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	8	854-0006	4	Washer, Lock - IT (#6)
4	526-0113	2	Washer, Flat (11/32"ID x 1"OD x 3/32"THK)	9	860-0006	2	Nut, Hex (#6-32)
5	870-0257	2	Nut, Self-Locking - Hex Head (5/16-18)	10	870-0183	2	Nut, Hex - With ET (#6-32)
				11	301-1886	1	Cover
				12	309-0128	1	Thermostat

Control Housing



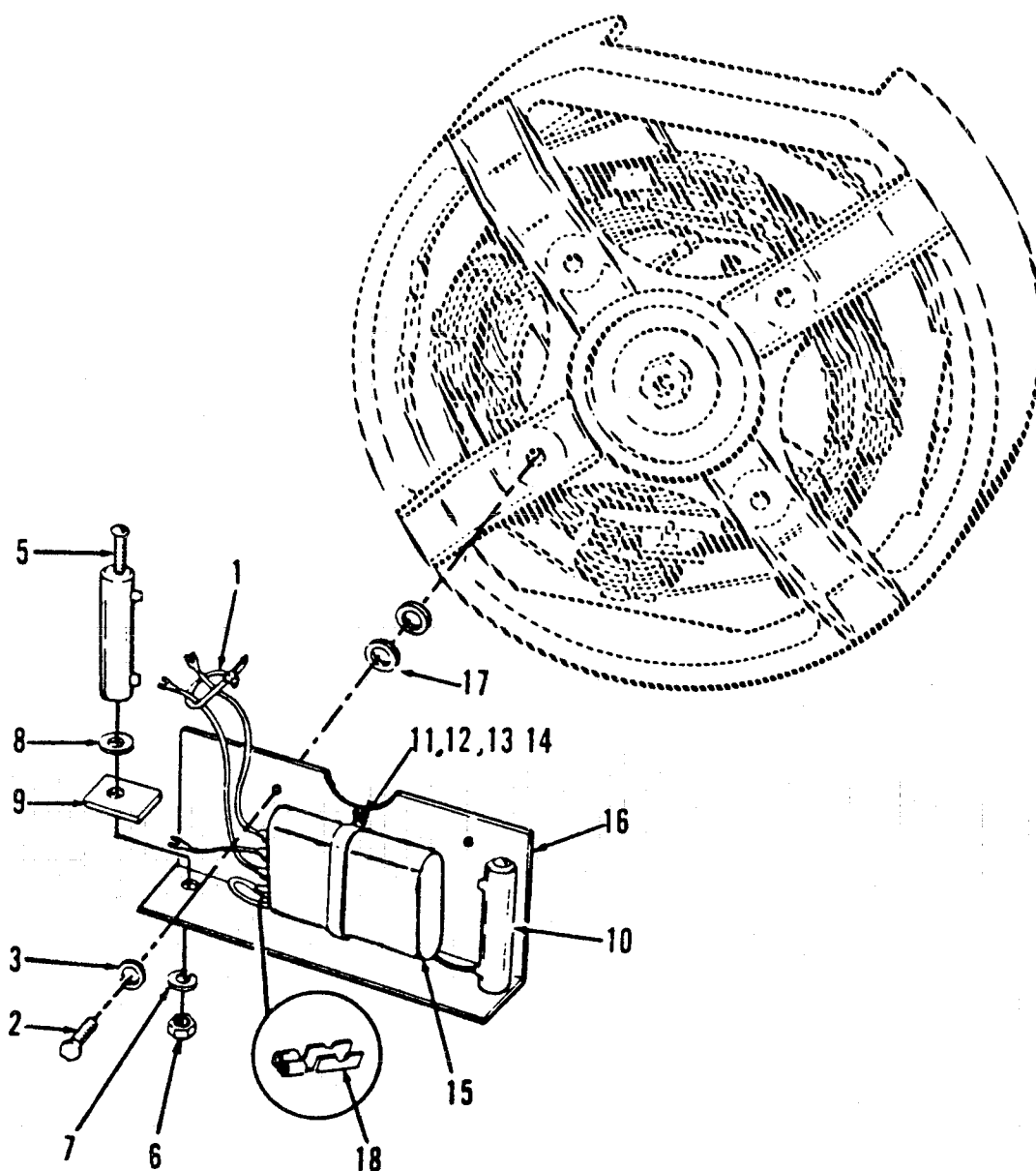
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	9	526-0018	5	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)
2	234-0370	1	Grill, Air - Generator Inlet	10	870-0212	6	Nut, Hex (1/4-20)
3	815-0350	18	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	11	301-3155	1	Housing, Control Box
4	301-3156	3	Panel Access	12	508-0203	1	Grommet
5	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")		508-0051	1	Thru October 1984
6	234-0361	1	Wrapper, End Bell			1	Begin November 1984
7	821-0018	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	13	821-0010	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
8	856-0006	1	Washer, Lock - EIT (1/4")	14	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
				15	301-3154	1	Saddle, Control Box Mounting

Capacitor Assembly



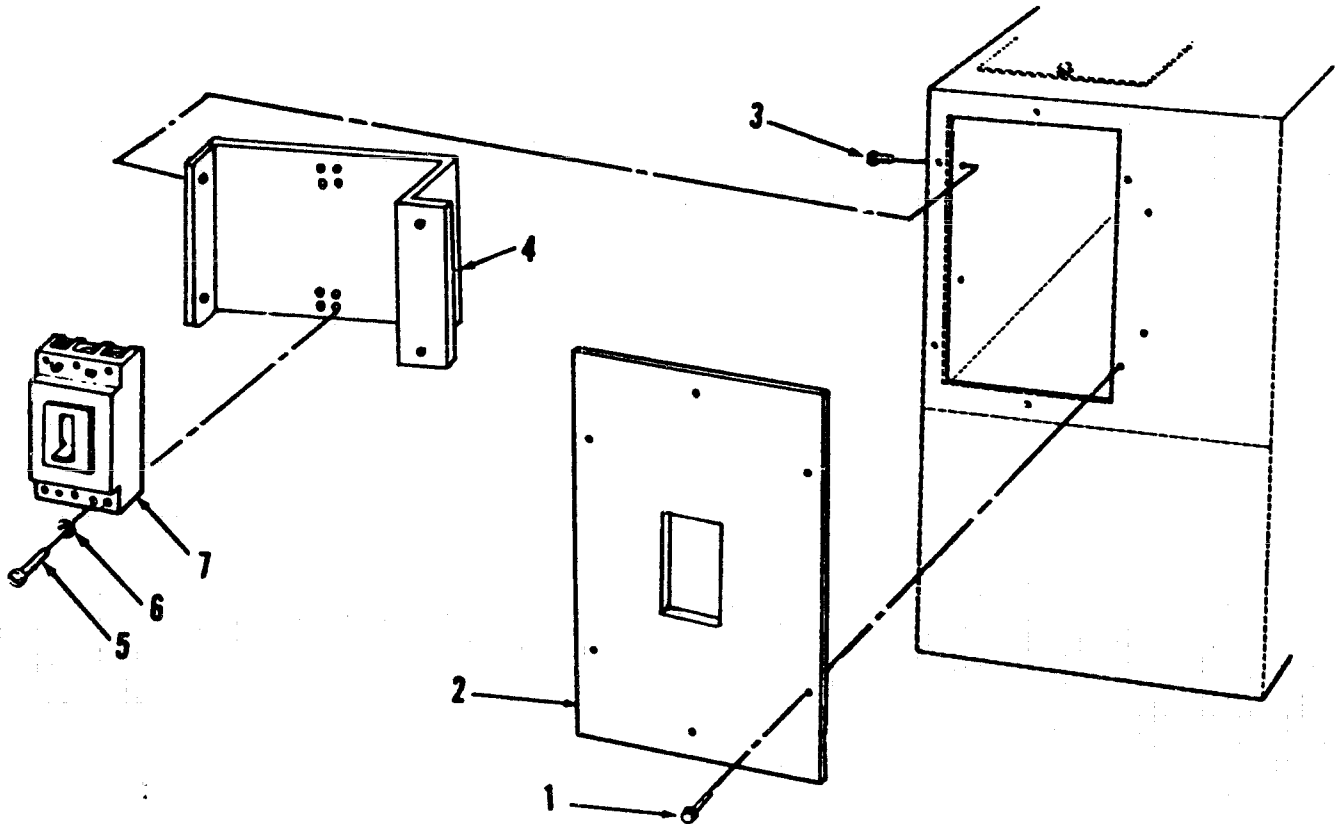
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0078	2	Screw, Machine - Round Head (#8-32 x 7/16")	6	356-0102	2	Clamp, Mounting - Capacitor
2	850-0025	2	Washer, Lock - Spring (#8)	7	821-0009	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")
3	861-0007	2	Nut, Square (#8-32)	8	356-0104	1	Bracket, Mounting - Capacitor Assembly (Bracket Not Required for Square Output Boxes)
4	356-0090	2	Capacitor, Fixed - Electrolytic (1300 MFD)				
5	812-0078	6	Screw, Machine - Round Head (#8-32 x 7/16")				

Filter - Voltage Regulator



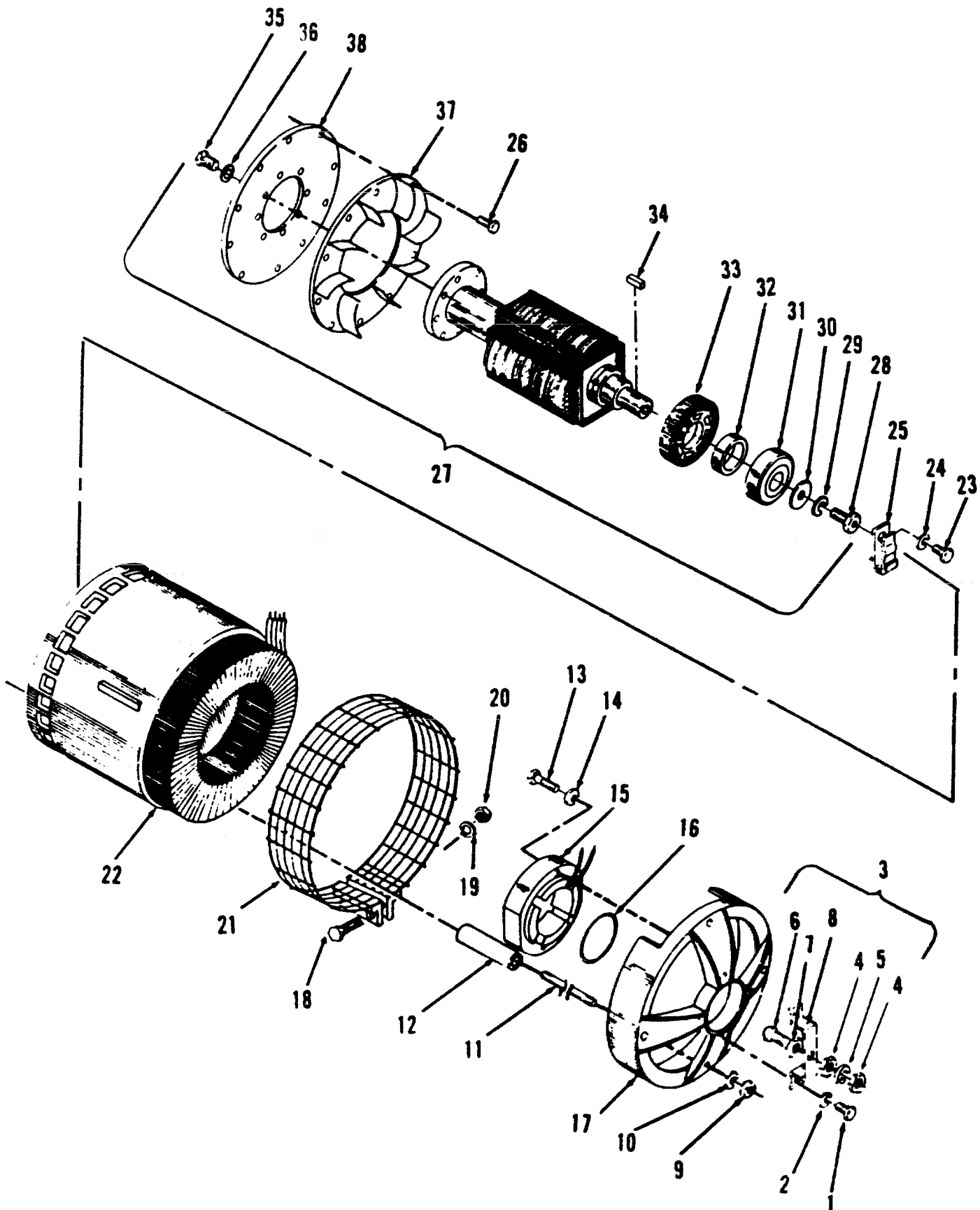
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-0941	5	Tie, Cable	11	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
2	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	12	870-0053	2	Nut, Hex (#10-32)
3	850-0040	2	Washer, Lock - Spring (1/4")	13	850-0030	2	Washer, Lock - Spring (#10)
5	812-0165	2	Screw, Machine - Round Head (1/4-20 x 4-1/2")	14	312-0189	1	Bracket, Mounting - Capacitor
6	862-0001	2	Nut, Hex (1/4-20)	15	312-0188	1	Capacitor, Fixed (15 MFD, 400 VAC)
7	850-0040	2	Washer, Lock - Spring (1/4")	16	232-2218	1	Bracket, Mounting - Filter
8	304-0427	4	Washer, Centering	17	526-0018	15	Washer, Flat (1/4")
9	304-0292	2	Insulator	18			Terminal Lug
10	354-0025	2	Resistor, Fixed - Wirewound (10 Ohm, 100 Watt)		332-0529	4	Bare (14-18 AWG)
					332-1279	8	Insulated (14-18 AWG)

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0350	6	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	7	320-0380	1	Breaker, Circuit
2	301-7540	1	Panel, Cover - Circuit Breaker		320-0424	1	100 Amp, 277/480 Volt
3	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")		320-0425	1	100 Amp, 347/600 Volt
4	301-7541	1	Bracket, Mounting - Circuit Breaker		320-0653	1	150 Amp, 277/480 Volt
5	812-0156	4	Screw, Machine - Round Head (1/4-20 x 1-1/2")		320-0426	1	150 Amp, 277/480 Volt - With Shunt Trip
6	850-0040	4	Washer, Lock - Spring (1/4")		320-0348	1	175 Amp, 220/380 Volt
					320-0422	1	200 Amp, 120/208 Volt
					320-1639	1	250 Amp, 120/240 Volt
						1	250 Amp, 120/240 Volt - With Shunt Trip
					320-0423	1	300 Amp, 120/208 Volt
					320-1581	1	300 Amp, 120/208 Volt - With Shunt Trip
					320-0620	1	300 Amp, 120/208 Volt - With Auxiliary Contacts
					320-0449	1	400 Amp, 120/208 Volt
					320-0705	1	400 Amp, 120/240 Volt

Generator



Generator

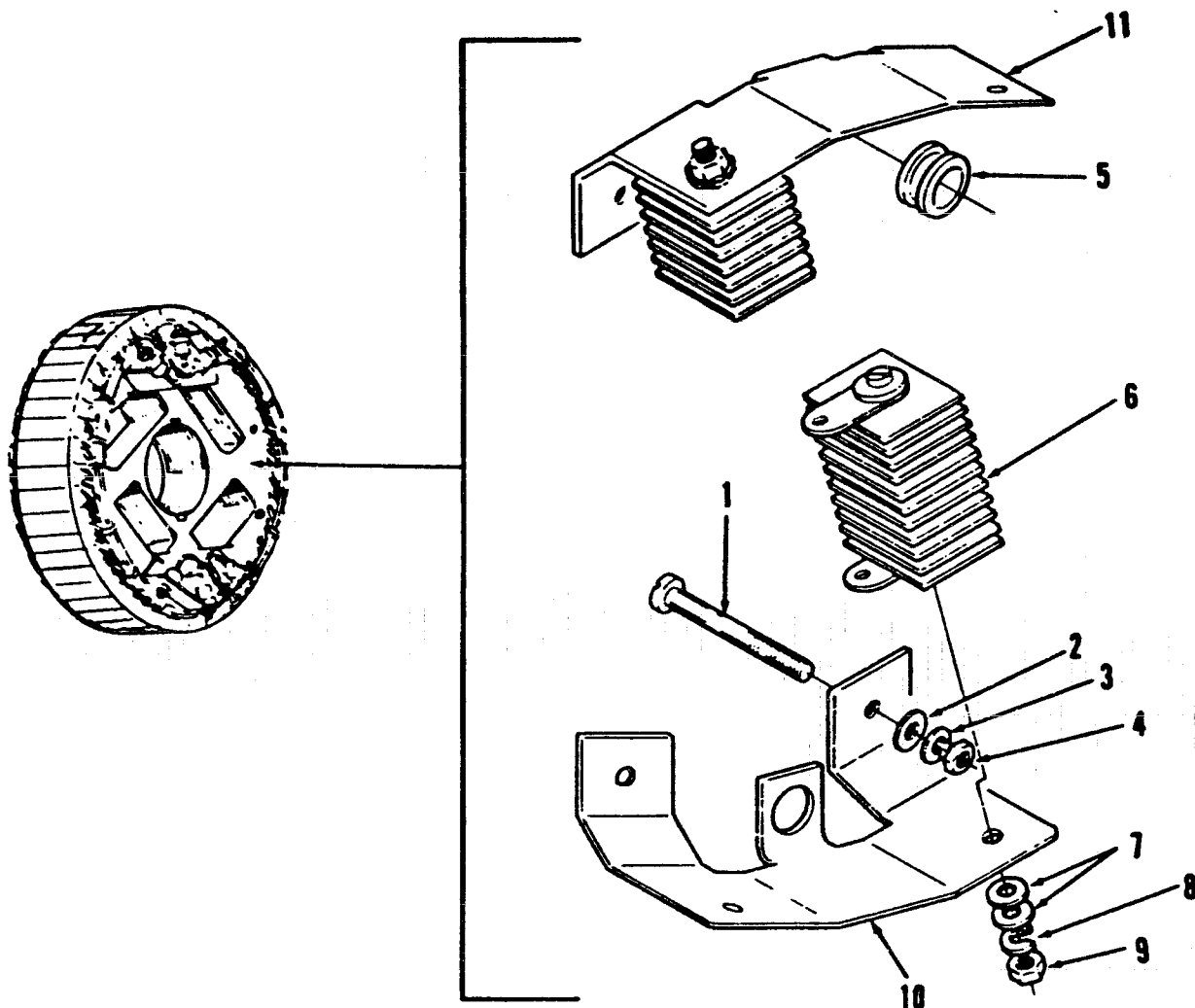
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	24	856-0010	1	Washer, Lock - EIT (3/8")
2	850-0040	2	Washer, Lock - Spring (1/4")	25	150-0717	1	Switch, Overspeed
3	150-1456	1	Bracket Assembly - Overspeed Switch (Includes Parts Marked *)	26	805-0018	8	Bolt - Hex Head (3/8-16 UNC) 1"LG
4	862-0001	2	*Nut, Hex (1/4-20)	27	805-0019	8	1-1/4"LG
5	853-0013	1	*Washer, Lock - ET (1/4")		201-2672	1	Rotor Assembly, Generator (Includes Parts Marked #)
6	150-0723	1	*Contact, Electrical		201-2690	1	Codes 6D, 9X, 15, 515
7	870-0250	1	*Nut, Insulator		201-2675	1	Codes 15, 515 (Environmental Protected)
8	150-1356	1	*Bracket, Mounting - Contact		201-2693	1	Codes 15, 515 (Extended Stack)
9	862-0011	4	Nut, Hex - Grade 8 (3/8-16)			1	Codes 15, 515 (Environmental Protected & Extended Stack)
10	850-0050	4	Washer, Lock - Spring (3/8")	28	800-0513	1	#Screw, Cap - Hex Head with 3/8-16 Tapped Center Hole
11	520-0724	4	Stud (3/8-16 UNC) 18-29/32"LG	29	850-0079	1	#Washer, Lock - Spring (3/4")
	520-0728	4	22-15/16"LG	30	526-0238	1	#Washer, Flat - Steel Alloy (13/16"ID x 2"OD x 3/16"THK)
12	503-0611	4	Hose, Rubber (7/16"ID x 5/8"OD x 3"LG)	31	510-0101	1	#Bearing, Ball
13	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	32	232-2102	1	#Spacer, Sleeve
14	850-0040	4	Washer, Lock - Spring (1/4")	33			#Rotor, Assembly - Exciter (See Separate Page for Components)
15	220-2353	1	Stator, Exciter Standard		201-1739	1	Standard
	220-1774	1	Environmental Protected		201-1845	1	Environmental Protected
16	509-0125	1	Seal, Oil - "O" Ring	34	515-0145	1	#Key, Machine (1/4" x 1/4" x 7/8")
17	211-0185	1	End Bell, Generator	35			#Bolt, Hex Head - Grade 8 (5/8-11 UNC)
18	800-0008	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")		805-0033	8	1-1/8" LG
19	850-0040	2	Washer, Lock - Spring (1/4")		805-0035	8	1-1/2" LG
20	862-0001	2	Nut, Hex (1/4-20)	36	526-0259	8	#Washer, Flat - Hardened Steel (11/16"ID x 1-3/8"OD x 7/64"THK)
21	234-0368	1	Screen, Air - Generator	37	205-0089	1	#Fan, Generator
22			Stator, Generator	38	232-2078	1	#Disk, Drive - Generator
	220-2627	1	Code 6D				
	220-1605	1	Code 9X				
	220-1457	1	Code 15				
	220-1789	1	Code 15 (Environmental Protected)				
	220-1460	1	Code 15 (Extended Stack)				
	220-1792	1	Code 15 (Environmental Protected & Extended Stack)				
23	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")				

* - Parts Included in Overspeed Bracket Assembly.
- Parts Included in Generator Rotor Assembly.



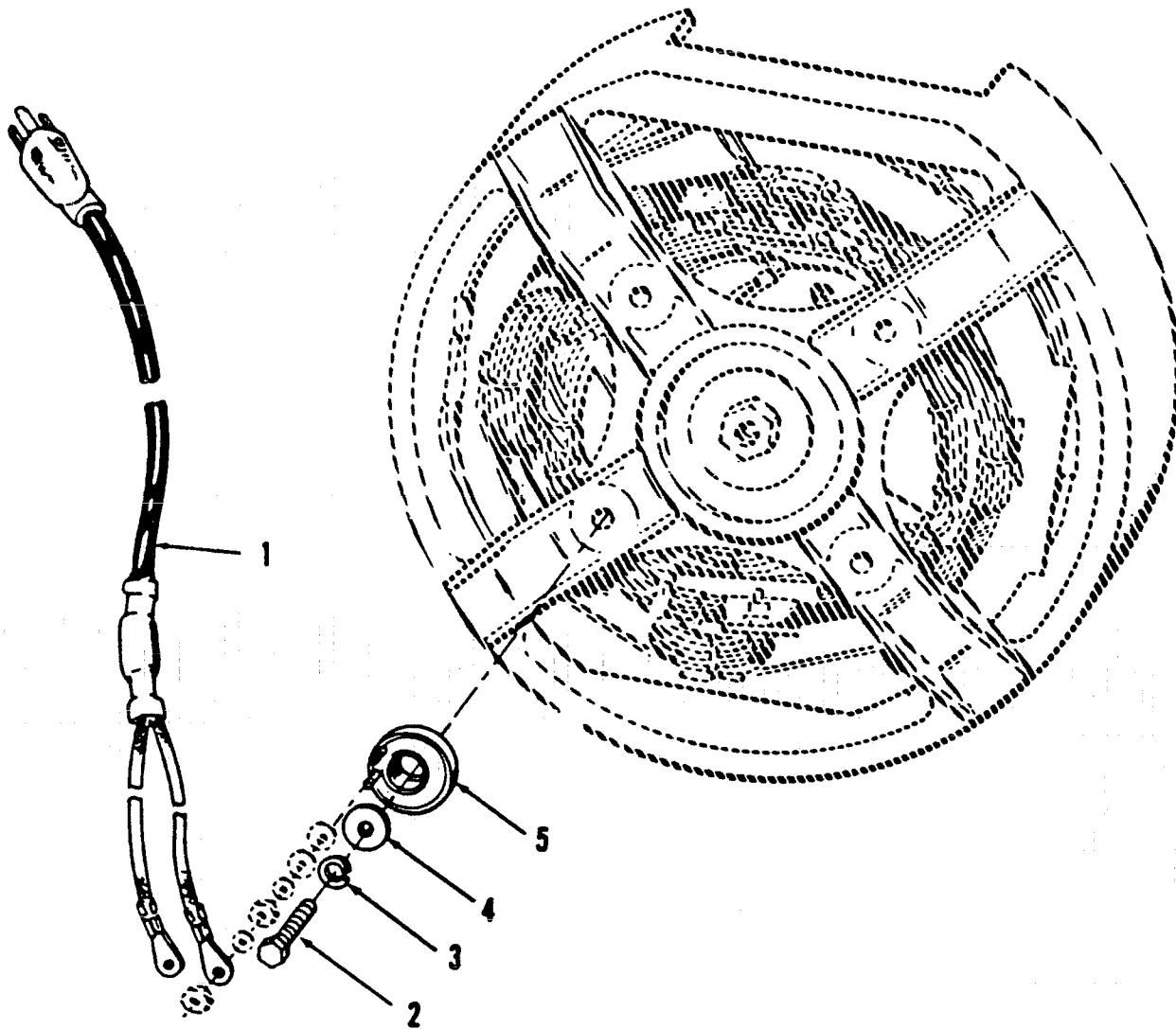
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	508-0093	2	Grommet, Rubber
12	870-0053	6	Nut, Hex (#10-32)
13	850-0030	6	Washer, Lock - Spring (#10)
14			Diode, Rectifier - Positive (CR1, CR2, CR3)
	358-0097	3	Standard
	358-0044	3	Environmental Protected
15			Diode, Rectifier - Negative (CR4, CR5, CR6)
	358-0096	3	Standard
	358-0043	3	Environmental Protected
16	363-0054	1	Heatsink - Positive Diodes
17	363-0055	1	Heatsink - Negative Diodes

Voltage Suppressor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0112	4	Screw, Machine - Round Head (#10-32 x 2-1/2")	7	526-0140	4	Washer, Flat (7/32"ID x 3/8"OD x 3/64"THK)
2	526-0140	4	Washer, Flat (7/32"ID x 3/8"OD x 3/64"THK)	8	850-0030	4	Washer, Lock - Spring (#10)
3	850-0030	4	Washer, Lock - Spring (#10)	9	870-0053	4	Nut, Hex (#10-32)
4	870-0053	4	Nut, Hex (#10-32)	10	363-0054	1	Heatsink - Positive Diodes
5	508-0093	2	Grommet, Rubber	11	363-0055	1	Heatsink - Negative Diodes
6	305-0526	1	Set, Voltage Suppressor (A Matched Pair)				

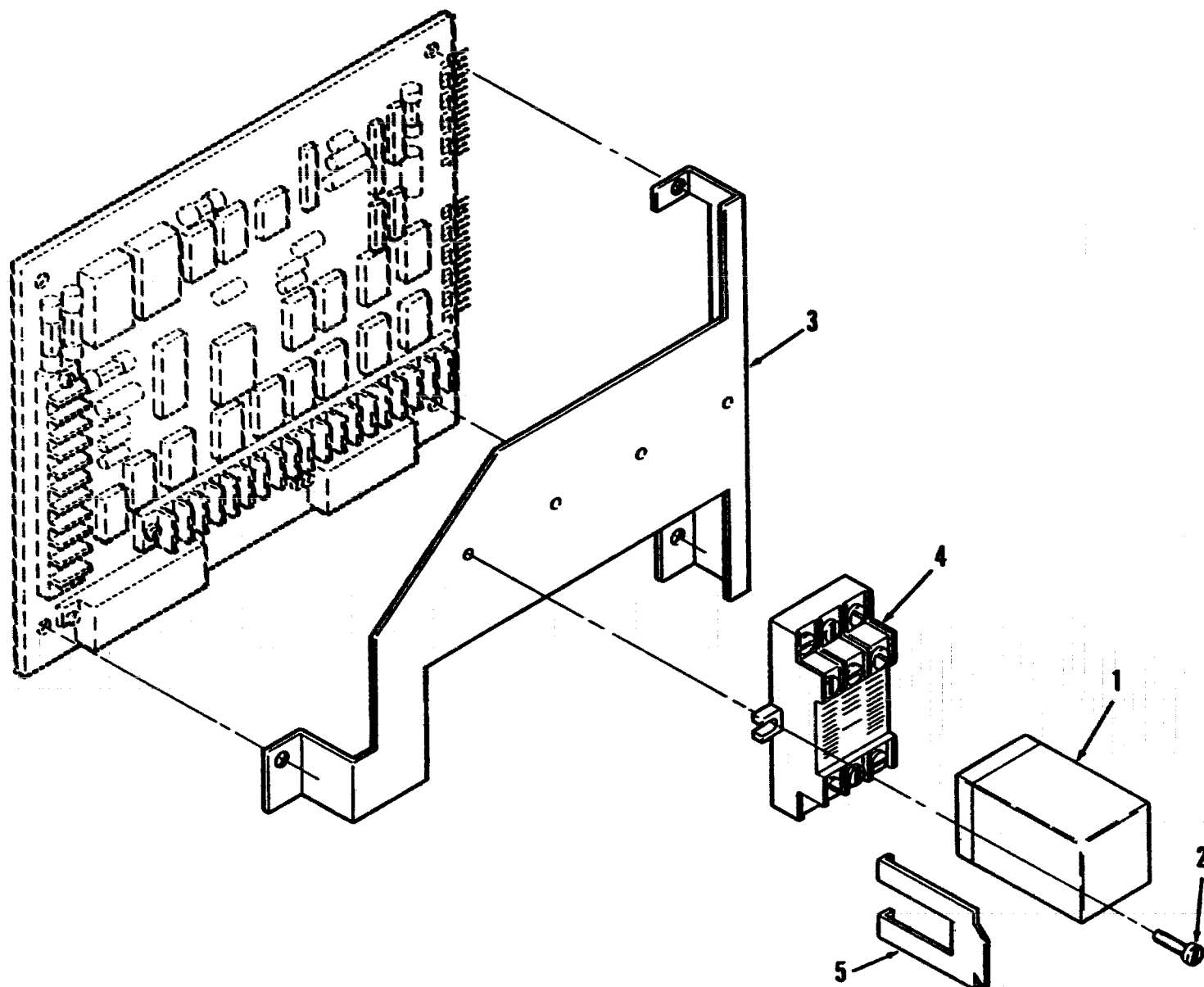
Heater-Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable, Electrical (Includes Thermostat)
	335-0146	1	120 VAC
	335-0147	1	240 VAC
2	800-0004	1	Screw, Cap - Hex Head (1/4-20 x 5/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0038	1	Washer, Lock - Spring (1/4")
4	526-0158	1	Washer, Flat (17/64"ID x 1"OD x 1/8"THK)
5			Heater, Electrical
	333-0059	1	120 VAC, 125 Watt
	333-0192	1	240 VAC, 200 Watt

Run Relay (Spec B)

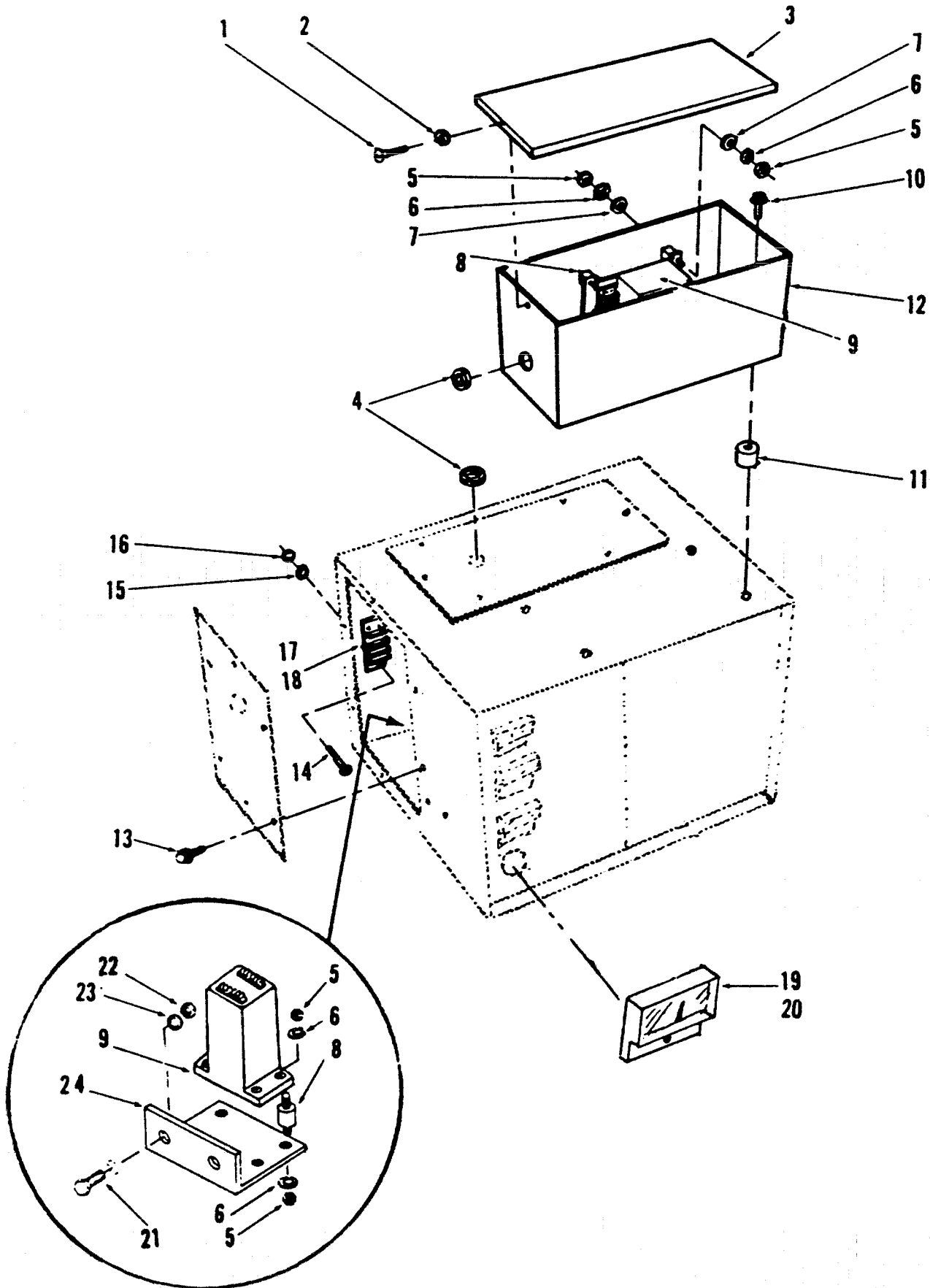


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1058	1	Relay, Run (K11) (Quantity as Required)
2	815-0388	2	*Screw, Pan Head - Cross Recessed Thread (#6-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	319-0447	1	Bracket, Relay Mounting
4	323-0804	1	*Socket, Relay
5	307-1987	2	*Holddown, Relay

* - Quantities listed are for one mounted relay.

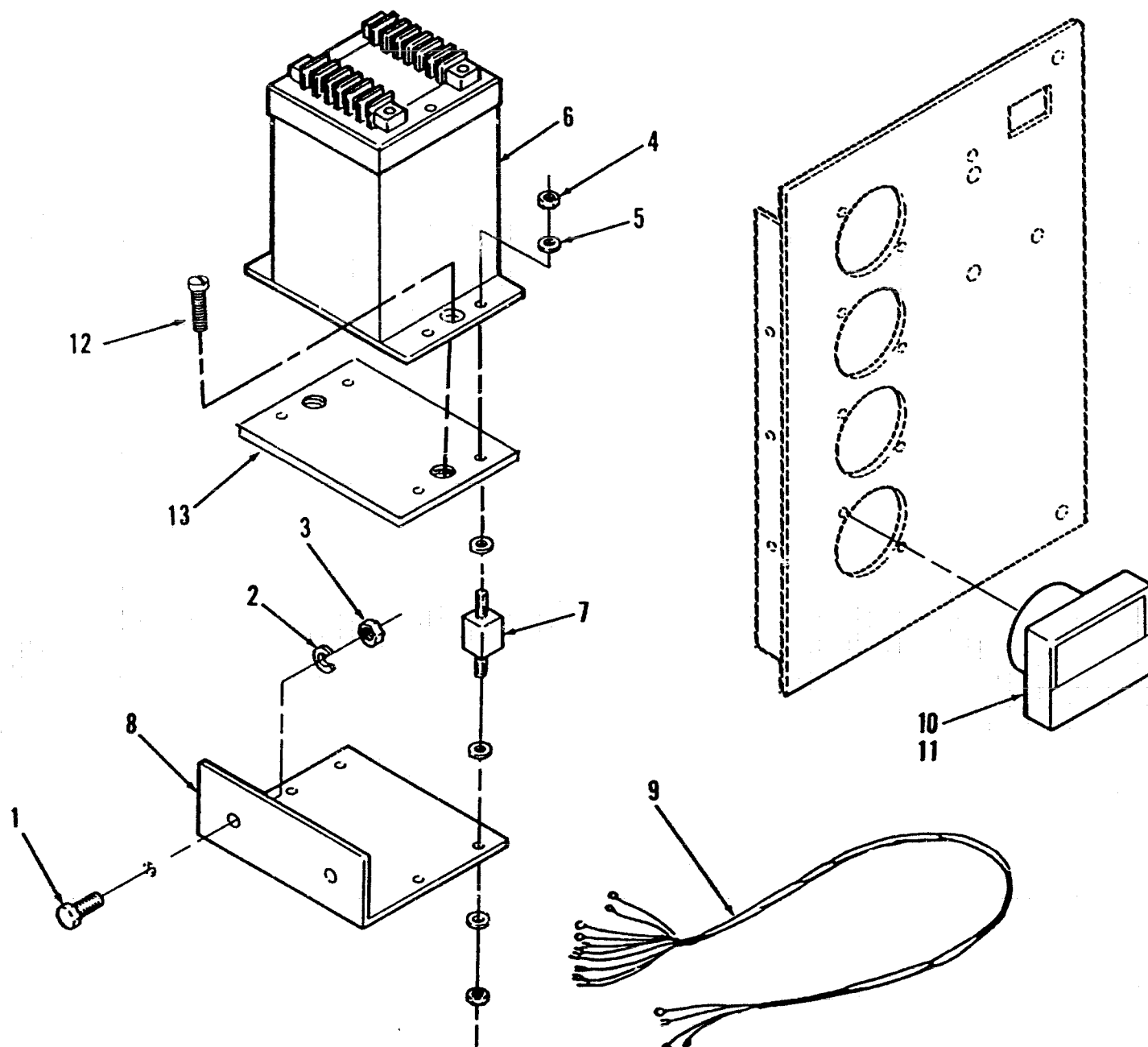
Wattmeter (Spec A)



Wattmeter (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0026	2	Screw, Machine - Truss Head (#10-32 x 3/8")	18	332-0610	1	Strip, Marker
2	853-0008	2	Washer, Lock - ET (#10)	19	302-1722	1	Wattmeter (Less Replaceable Dial)
3	301-3476	1	Cover - Transducer Box (External Installation)	20			Dial, Wattmeter
4	508-0001	2	Grommet, Rubber		302-1721-01	1	Scale 0-35 KW
5	860-0008	8	Nut, Hex (#8-32)		302-1721-02	1	Scale 0-50 KW
6	853-0005	8	Washer, Lock - ET (#8)		302-1721-03	1	Scale 0-70 KW
7	526-0003	8	Washer, Flat (11/64"ID x 3/8"OD x 1/32"THK)		302-1721-04	1	Scale 0-90 KW
8	402-0354	4	Mount, Vibration		302-1721-05	1	Scale 0-115 KW
9			Transducer, Watt		302-1721-06	1	Scale 0-160 KW
	302-1082	1	3 Phase, 60 Hertz		302-1721-07	1	Scale 0-180 KW
	302-1083	1	3 Phase, 50 Hertz		302-1721-08	1	Scale 0-200 KW
	302-1113	1	1 Phase, 60 Hertz		302-1721-09	1	Scale 0-250 KW
10	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")		302-1721-10	1	Scale 0-300 KW
11	402-0078	4	Mount, Vibration		302-1721-11	1	Scale 0-350 KW
12	301-3477	1	Box, Transducer (External Installation)		302-1721-12	1	Scale 0-400 KW
13	815-0350	6	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")		302-1721-13	1	Scale 0-500 KW
14	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")		302-1721-14	1	Scale 0-600 KW
15	853-0003	4	Washer, Lock - ET (#6)		302-1721-15	1	Scale 0-700 KW
16	860-0006	4	Nut, Hex (#10-32)		302-1721-16	1	Scale 0-800 KW
17	332-0609	1	Block, Terminal		302-1721-17	1	Scale 0-1200 KW
				21	821-0017	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
				22	862-0014	2	Nut, Hex (5/16-18)
				23	850-0045	2	Washer, Lock - Spring (5/16")
				24	301-6987	1	Bracket, Mounting (Internal Installation)

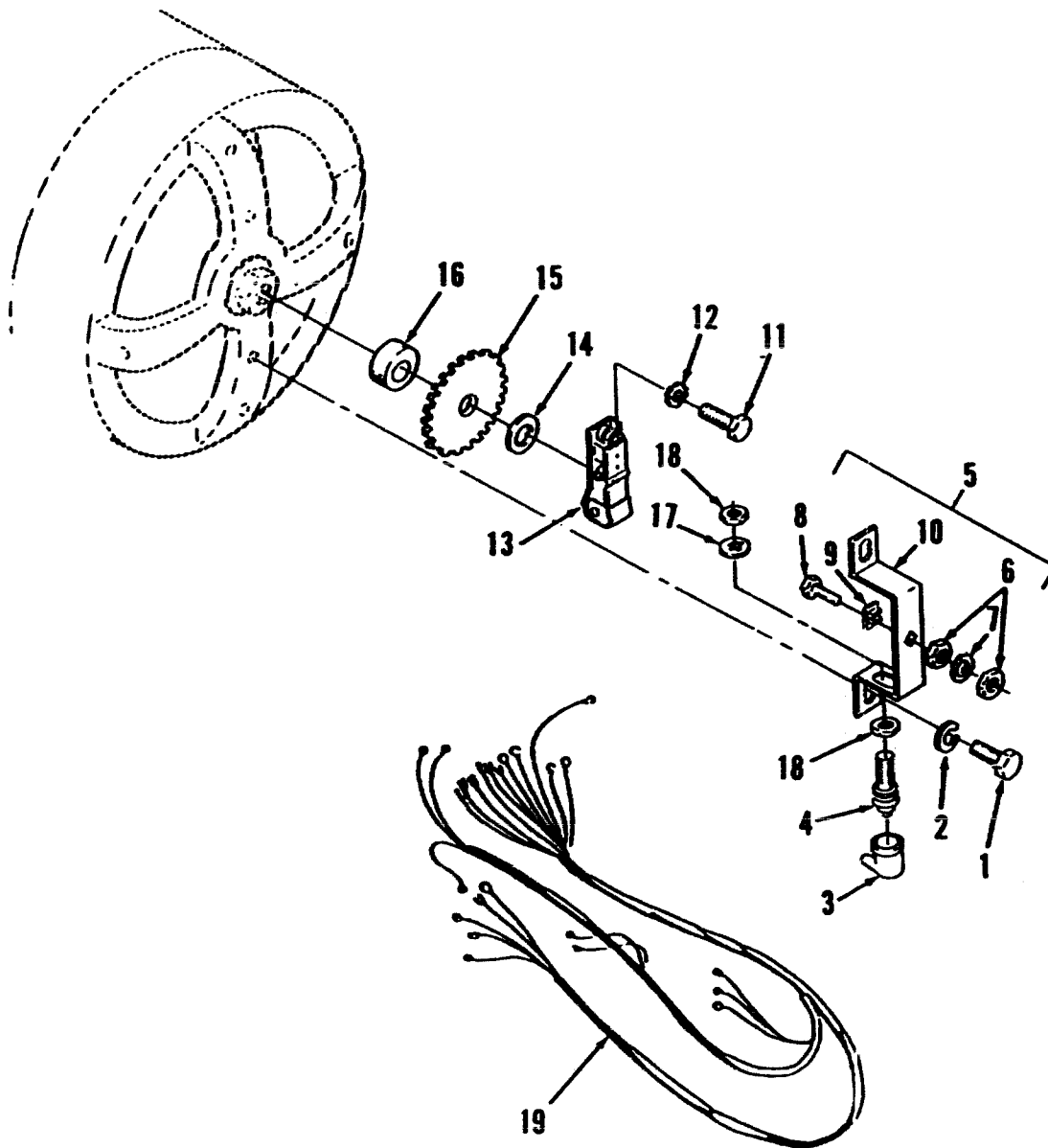
Wattmeter (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Self-locking - HWH (5/16-18 x 1/2")
2	850-0045	2	Washer, Lock - Spring (5/16")
3	862-0014	2	Nut, Hex (5/16-18)
4	860-0008	8	Nut, Hex (#8-32)
5	856-0002	16	Washer, Lock - EIT (#8)
6	302-1833-01	1	Transducer, Watt
7	402-0354	4	Mount, Shock

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	301-6987	1	Bracket, Mounting
9	338-1936	1	Harness, Wiring
10	302-1722	1	Meter, Watt (Less Dial)
11	302-1721-04	1	Dial, Wattmeter
12	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
13	319-0030	1	Plate, Support - Transducer

Magnetic Pickup (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
2	850-0040	2	Washer, Lock - Spring (1/4")
3	150-1410	1	Cap, Insulator
4	150-1406	1	Sensor, Speed - Magnetic
5	150-2117	1	Bracket and Point Assembly (Includes Parts Marked *)
6	862-0001	2	*Nut, Hex (1/4-20)
7	853-0013	1	*Washer, Lock - ET (1/4")
8	150-0723	1	*Point, Contact
9	870-0250	1	*Nut, Insulator
10	301-9402	1	*Bracket, Mounting
11	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	856-0010	1	Washer, Lock - FIT (3/8")
13	150-0717	1	Switch, Overspeed (S3)
14	526-0077	1	Washer, Flat (3/8")
15	150-1557	1	Wheel, Sensor
16	370-4011	1	Spacer
17	854-0031	1	Washer, Lock - IT (3/4")
18	868-0011	2	Nut, Hex - Jam (3/4-16)
19	338-1930	1	Harness, Wiring - Magnetic Pickup (A16 to A11)

* - Parts Included in 150-2117 Bracket and Point Assembly

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